RG-F551G/553G
RG-F552E/554E

SHARP

SERVICE MANUAL / SERVICE-ANLEITUNG / MANUEL DE SERVICE

SY6I1RGF551GK

PHOTO: RG-F551G(BK)

RG-F551G(BK)
RG-F553G(BK)
RG-F552E(BK)
RG-F554E(BK)

- In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used.
- Im Interesse der Benutzer-Sicherheit sollte dieses Gerät wieder auf seinen ursprünglichen Zustand eingestellt und nur die vorgeschriebenen Teile verwendet werden.
- Dans l'intérêt de la sécurité de l'utilisateur, l'appareil devra être reconstitué dans sa condition première et seules des pièces identiques à celles spécifiées, doivent être utilisées.

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INHALTSVERZEICHNIS

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SHARP CORPORATION

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FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT, PLEASE REFER TO THE OPERATION MANUAL.

SPECIFICATIONS

Frequency range:	FM;	87.5 – 108 MHz (50 kHz span)
	MW;	522 – 1620 kHz (9 kHz span)
	LW;	153 – 281 kHz (1 kHz span, MANUAL)
		155 – 281 kHz (9 kHz span, AUTO)
Power source:		12 V (for negative earth car only)
Output power:	MAX;	8 W + 8 W
(RG-F551G/553G)	RMS;	5 W + 5 W (DIN 45 324)
Output power:	MAX;	8 W + 8 W
(RG-F552E/554E)	RMS;	5 W + 5 W (10% distortion)

Output impedance:	4 ohms (each)
Dimensions:	Width; 180mm (7-1/16")
	Height; 52mm (2-1/16")
	Depth; 125mm (4-15/16")
Weight:	1.0 kg (2.2 lbs.)

Specifications for this model are subject to change without prior notice.

NAMES OF PARTS

1. Band Selector
2. FM Mono-Stereo Button
3. Preset Memory Scan Button
4. ASPM/Radio Preset Memory Button
5. Tone Control
6. Power ON-OFF/Volume/Balance Control
7. Fader Control (552E/554E)
8. Tape Eject/Fast Forward Button
9. Tuning Down Button
10. Station Preset Button
11. Tuning Up Button
12. Antenna Socket (552E/554E/Saudi Arabia)
13. Speaker Terminal (552E/554E/Saudi Arabia)
14. Radio Frequency
15. Station Preset Number
16. FM Mono Indicator
17. FM Stereo Indicator
18. Station Memory Indicator

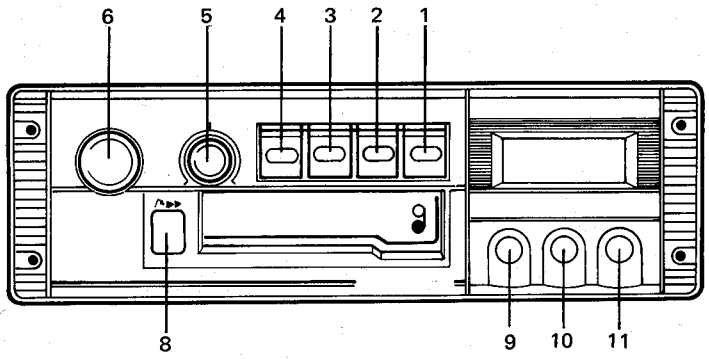

Figure 2–1 (551G/553G/Saudi Arabia)

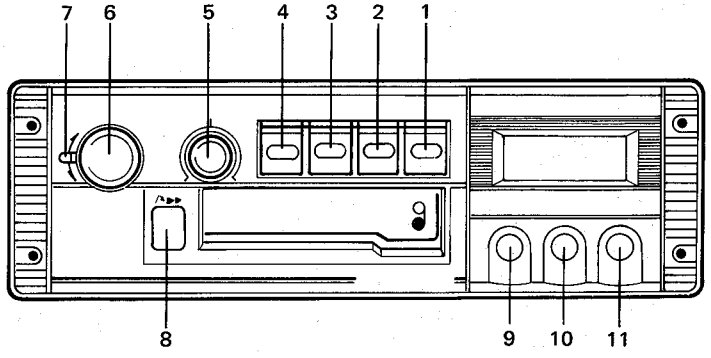

Figure 2–2 (552E/554E)

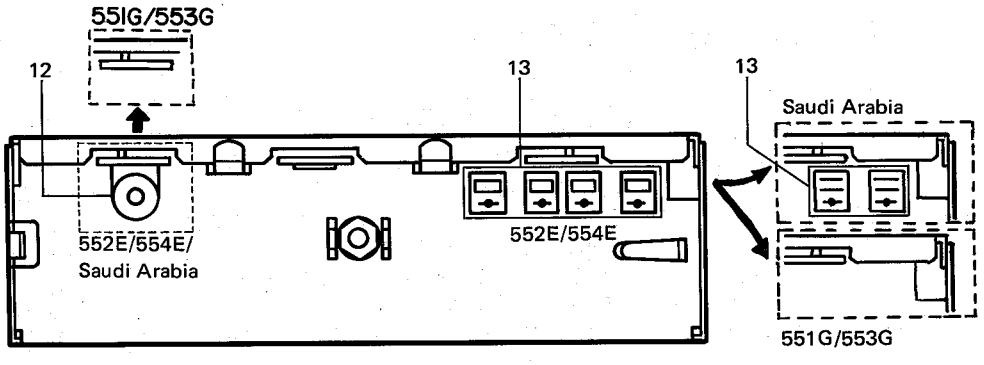

Figure 2–3

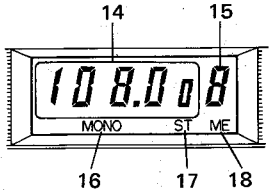

Figure 2–4

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EINE VOLLSTÄNDIGE BESCHREIBUNG DER BEDIENUNG DIESES GERÄTES IST IN DER BEDIENUNGSANLEITUNG ENTHALTEN.

TECHNISCHE DATEN

Empfangsbereich:	UKW;	87,5 – 108 MHz (50 kHz Raster)
	MW;	522 – 1 620 kHz (9 kHz Raster)
	LW;	153 – 281 kHz (1 kHz Raster, manualle Abstimmung)
		155 – 281 kHz (9 kHz Raster, automatische Abstimmung)
Spannungsversorgung:	12 V (nur Fahrzeug mit negativer Batterieklemme an Masse)	
Ausgangsleistung:	MAX;	8 W + 8W
	RMS;	5 W + 5 W (DIN 45 324)
Ausgangsimpedanz:	(je) 4 Ohm	
Abmessungen:	Breite;	180 mm
	Höhe;	52 mm
	Tiefe;	125 mm
Gewicht:	1,0 kg	

Die technischen Daten für dieses Modell können ohne vorherige Ankündigung Änderungen unterworfen sein.

BEZEICHNUNG DER TEILE

1. Wellenbereichswahlschalter
2. UKW-Mono-Stereotaste
3. Festsenderspeicher-Suchlauftaste
4. ASPM//Festsenderspeichertaste
5. Klangsteller
6. Ein/Aus-Schalter/Lautsärkesteller/Balancesteller
8. Auswurf/Schnellvorlauf-Taste
9. Abwärts-Abstimmtaste
10. Sender-Voreinstelltaste
11. Aufwärts-Abstimmtaste
12. Außenantennenklemmen (Saudi Arabia)
13. Lautsprecherklemmen (Saudi Arabia)
14. Empfangsfrequenz
15. Stationsnummer
16. UKW-Monoanzeige
17. UKW-Stereoanzeige
18. Senderspeicheranzeige

Ⓕ

POUR LA DESCRIPTION COMPLÈTE DU FONCTIONNEMENT DE CET APPAREIL, SE REPORTER AU MODE D'EMPLOI.

CARACTÉRISTIQUES

Gammes de fréquence:	FM;	87,5 – 108 MHz (étalement 50 kHz)
	PO;	522 – 1620 kHz (étalement 9 kHz)
	GO;	153 – 281 kHz (étalement MANUAL 1 kHz)
		155 – 281 kHz (étalement AUTO 9 kHz)
Alimentation:	12 V (uniquement pôle négatif à la masse)	
Puissance de sortie:	Maximum;	8 W + 8 W
	RMS;	5 W + 5 W (DIN 45 324)
Impédance de sortie:	4 ohms (chacun)	
Dimensions:	Largeur;	180 mm
	Hauteur;	52 mm
	Profondeur;	125 mm
Poids:	1,0 kg	

Les caractèristiques de ce modèle sont sujettes à modification sans préavis.

NOMENCLATURE

1. Sélecteur de bande
2. Commutateur FM mono-stéréo
3. Touche balayage de présélection de mémoire
4. Touche ASPM/mémoire de présélection radio
5. Commande de tonalité
6. Alimentation marche-arrêt/volume/commande de balance
8. Touche d'éjection/avance rapide
9. Touche syntonisation bas
10. Touche de présélection de station
11. Touche syntonisation haut
12. Bornes d'antenne externe (Saudi Arabia)
13. Bornes d'enceinte (Saudi Arabia)
14. Fréquence radio
15. Numéro présélection
16. Témoin FM mono
17. Témoin FM stéréo
18. Témoin mémoire station

Ⓔ

DISASSEMBLY

Caution on Disassembly
Follow the below-mentioned notes when disassembling the unit and reassembling it, to keep its safety and excellent performance:
1. Take cassette tape out of the unit.
2. Take off nylon bands or wire holders where they need be removed when disassembling the unit. After servicing the unit, be sure to rearrange the leads where they were before disassembling.
3. Take sufficient care on static electricity of integrated circuits and other circuits when servicing.

STEP	REMOVAL	PROCEDURE	FIGURE
1	Nose Piece	1. Knob. . . . . (*2) 2. Hook . . . . . (B)x4	4–1
2	Top Cabinet	See Fig. 4–2.	4–2
3	Main PWB (*1)	1. Screw . . . . . (C)x3 2. Unsolder. . . . (D)x4 3. Screw . . . . . (*3)	4–3 4–4
4	Mechanism Block	1. Socket . . . . . .(F)x2 2. Screw . . . . . (G)x3	4–3 4–4

*1. Each P.W.B. should be removed until the parts to be exchanged can be removed when servicing. If the parts to be exchanged are in the exchangeable condition, the rest of P.W.Bs. need not be removed.
*2. 551G/553G/Saudi Arabia: (A) x 2
552E/554E : (A) x 3
*3. 551G/553G : (E) x 1
552E/554E/Saudi Arabia : – – –

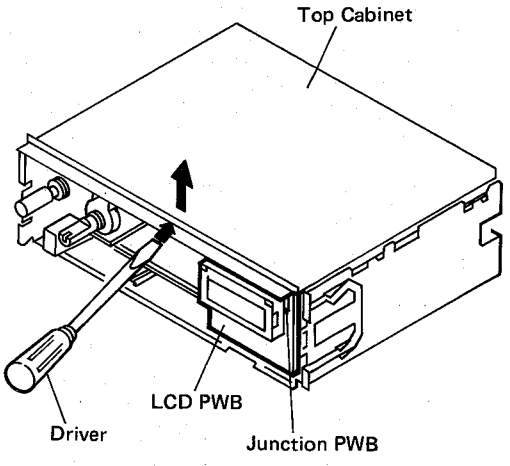


Figure 4–2

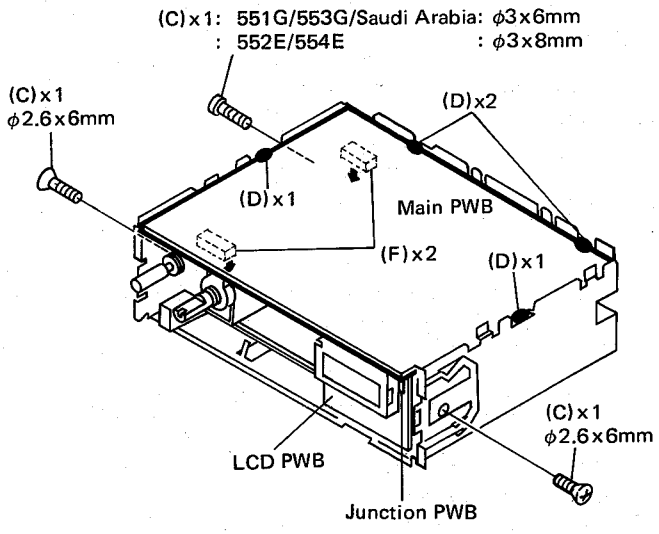


Figure 4–3

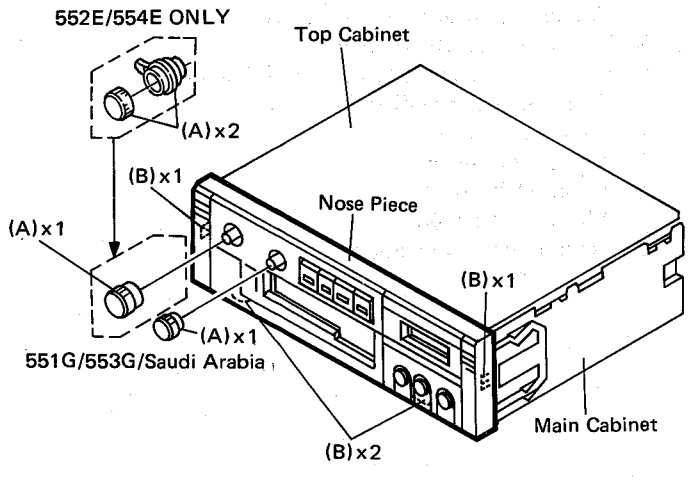


Figure 4–1

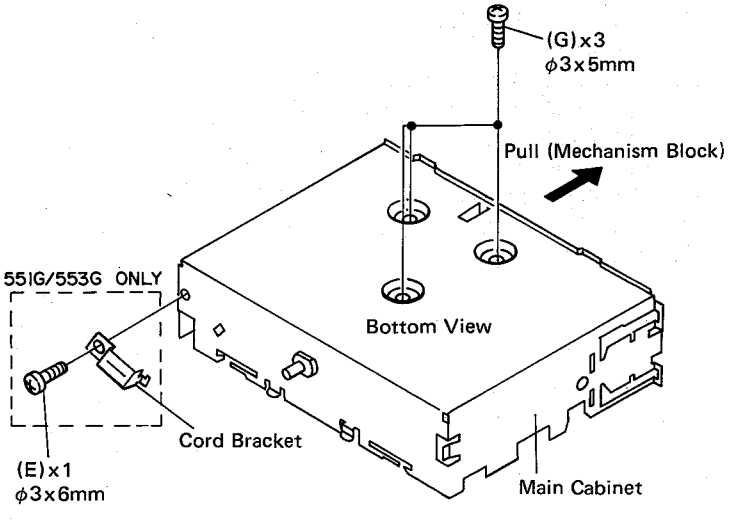


Figure 4–4

Ⓓ ZERLEGEN

Vorsichtsmassregeln für das Zerlegen
Beim Zerlegen und Zusammenbauen des Gerätes die folgenden Anweisungen befolgen, um dessen Betriebssicherheit und ausgezeichnete Leistung aufrechtzuerhalten.
1. Die Cassette aus dem Gerät entfernen.
2. Nylonbänder oder Leitungshalter entfernen, falls dies beim Zerlegen des Gerätes erforderlich ist. Nach Warten des Gerätes darauf achten, die Leitungen wieder so zu verlegen, wie sie vor den Zerlegen angeordnet waren.
3. Beim Ausführen von Wartungsarbeiten auf statische Elektrizität der integrierten Schaltkreise und anderen Schaltungen achten.

SCHRITT	ENTFERNEN	VERFAHREN	ABBILDUNG
1	Frontplatte	1. Knopf . . . . . (A)x2 2. Haken . . . . . (B)x4	4–1
2	Obere Gehäusehälfte	Siehe Abb. 4–2.	4–2
3	Hauptleiterplatte (*1)	1. Schraube . . . . . (C)x3 2. Ablöten . . . . . (D)x4 3. Schraube . . . . . (*3)	4–3 4–4
4	Laufwerkblock	1. Buchse. . . . . (F)x2 2. Schraube . . . . . (G)x3	4–3 4–4

*1. Die einzelnen Leiterplatten sollten entfernt werden, bis die zu auswechselnden Teile bei der Wartung entfernt werden können. Wenn die zu auswechselnden Teile in auswechselbarem Zustand sind, ist es nicht erforderlich, die restlichen Leiterplatten zu entfernen.
*3. 551G/553G: (E) x 1
Saudi Arabia: – – –

Ⓕ DÉMONTAGE

Précautions pour le démontage
Lors du démontage de l'appareil et de son remontage, suivre les précautions ci-dessous, pour maintenir la sécurité et d'excellentes performances.
1. Déposer la bande cassette de l'appareil.
2. Déposer les bandes de nylon ou les serre-câbles si nécessaire los du démontage de l'appareil. Après la réparation de l'appareil, s'assurer de redisposer les fils tel qu'ils étaient avant le démontage.
3. Faire attention à l'électricité statique des circuits intégrés et des autres circuits lors de la réparation.

ÉTAPE	DÉPOSE	PROCÉDÉ	FIGURE
1	Panneau frontal	1. Bouton . . . . . (A)x2 2. Crochet. . . . . (B)x4	4–1
2	Coffret supérieur	Voir la Fig. 4–2.	4–2
3	PMI principale (*1)	1. Vis . . . . . (C)x3 2. Dessouder . . . (D)x4 3. Vis . . . . . (*3)	4–3 4–4
4	Bloc du mécanisme	1. Douille . . . . . (F)x2 2. Vis . . . . . (G)x3	4–3 4–4

*1. Chaque P.M.I. doit être déposée jusqu'à l'échange de pièce de P.M.I. Si lèchange de pièce est possible, on n'a pas besoin de déposer les autres P.M.I.
*3. 551G/553G: (E) x 1
Saudi Arabia: – – –

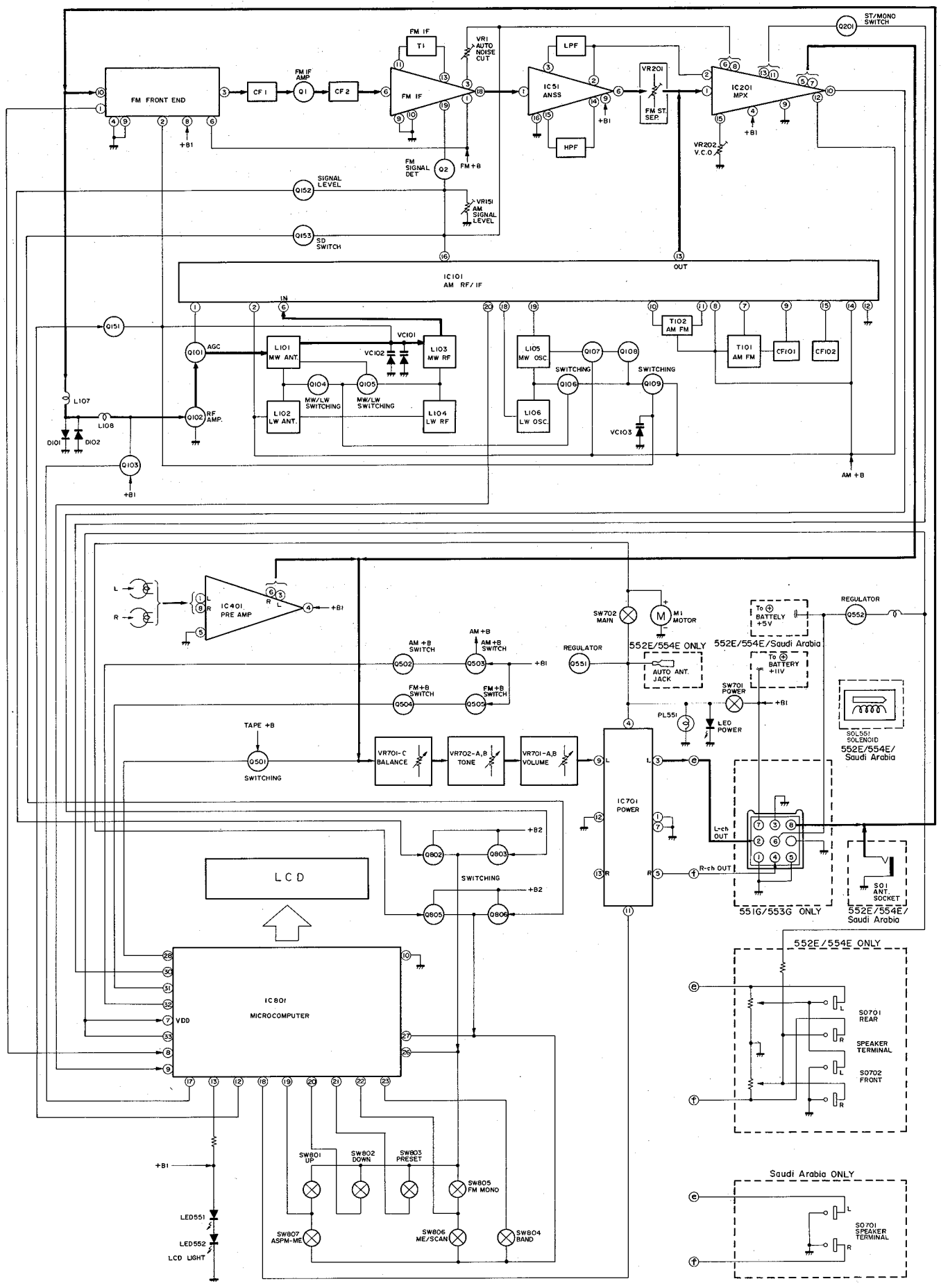


Figure 6 BLOCK DIAGRAM

Ⓔ INPUT/OUTPUT PINS OF MICROCOMPUTER (IC801)

Pin No.	Name	Input/ Output	Function
1 ~ 4	LCD4 ~ LCD1	Output	Terminal to output segment signal to LCD panel.
5 6	COM2 COM1	Output	Terminal to output common signal to LCD panel.
7	VDD	—	Power supply terminal to supply 5 V ±10% in operating state (This pin is connected to pin 33.)
8	VCOH (FM)	Input	Inputs local oscillation output of 10 to 150 MHz. This terminal is automatically set to Pull — Down state when AM terminal "VCOL" is selected.
9	VCOL (AM)	Input	Inputs local oscillation output of 0.6 to 50 MHz. This terminal is automatically set to Pull-Down state when FM terminal "VCOH" is selected.
10	GND	—	Ground pin
11 12	EO1 EO2	Output	PLL error output terminal. EO1 and EO2 output the same waveforms. Any one of them can be selected freely.
13	CE	Input	Selection signal input High level: Normal operation Low level: PLL is in inhibited state, namely disabled state.
14	NC	—	No connection
15 16	XI XO	Input	Connecting terminal of 4.5 MHz crystal oscillator.
17 ~ 20	PA3 ~ PA0	—	4-bit Input/Output port. Input/output assignment for each bit is possible.
21 ~ 24	K3 ~ K0	Input	4-bit input port. It is usually used for key matrix input.
25 ~ 28	PB3 ~ PB0	Output	4-bit output port. It is used as key-return signal source since sync current is reduced owing to specific configuration.
29 ~ 32	PC3 ~ PC0	Output	4-bit output port PC3 and PC2 are used similarly to terminals PB0 to PB3.
33	VDD	—	Power supply terminal to supply 5 V ±10% in operating state. (This pin is connected to pin 7.)
34 ~ 52	LCD23 ~ LCD5	Output	Terminal to output segment signal to LCD panel.

RG-F551G/553G
RG-F552E/554E

Ⓓ EINGANGS-/AUSGANGSBUCHSEN DES MICROCOMPUTERS (IC801)

Stift Nr.	Bezeich-nung	Eingang/ Ausgang	Function
1 ~ 4	LCD4 ~ LCD1	Ausgang	Anschluß für Ausgangs-Segment-signal zur Flüssigkristallanzeige.
5 6	COM2 COM1	Ausgang	Anschluß für gemeinsames Signal zur Flüssigkristallanzeige.
7	VDD	—	Spannungsversorgungsanschluß für Zufuhr von 5V ± 10% im Betriebszustand. (Dieser Stift ist an Stift 33 angeschlossen.)
8	VCOH (FM)	Eingang	Eingabe von örtlich auftretenden Ausgangsschwingungen zwischen 10 und 150 MHz. Dieser Anschluß ist automatisch auf Pull-Down eingestellt, wenn der AM Anschluß "VCOL" gewählt wird.
9	VCOL (AM)	Eingang	Eingabe von örtlich auftretenden Ausgangsschwingungen zwischen 0,6 und 150 MHz. Dieser Anschluß ist automatisch auf Pull-Down eingestellt, wenn der FM Anschluß "VCOH" gewählt wird.
10	GND	—	Massestift
11 12	EO1 EO2	Ausgang	PLL-Fehlerausgabeanschluß. EO1 und EO2 Ausgangssignale zeigen die gleichen Wellenformen. Beide Signale können frei gewählt werden.
13	CE	Eingang	Wahl der Signaleingabe Hoher Pegel: Normaler Betrieb Tiefer Pegel: PLL ist außer Funktion.
14	NC	—	Kein Anschluß
15 16	XI XO	Eingang	Verbindungsanschluß für 4,5 MHz Quarzoszillator.
17 ~ 20	PA3 ~ PA0	—	4-Bit Eingangs/Ausgangsanschluß. Eingabe/Ausgabezuordnung für jedes Bit möglich.
21 ~ 24	K3 ~ K0	Eingang	4-Bit Eingangsanschluß. Normalerweise für Tastenmatrixeingabe.
25 ~ 28	PB3 ~ PB0	Ausgang	4-Bit Ausgangsanschluß. Wird als Tasten-Returnsignalquelle verwendet, da der synchronisierende Strom wegen der spezifischen Konfiguration reduziert ist.
29 ~ 32	PC3 ~ PC0	Ausgang	4-Bit Ausgangsanschluß. PC3 und PC2 sind in der Verwendung ähnlich den Anschlüssen PB0 bis PB3.
33	VDD	—	Spannungsversorgungsanschluß für Zufuhr von 5V ± 10% im Betriebszustand. (Dieser Stift ist an Stift 7 angeschlossen.)
34 ~ 52	LCD23 ~ LCD5	Ausgang	Anschluß für Ausgangs-Segment-signal zur Flüssigkristallanzeige.

Ⓕ BROCHES DENTRÉE/SORTIE DU MICRO-ORDINATEUR (IC801)

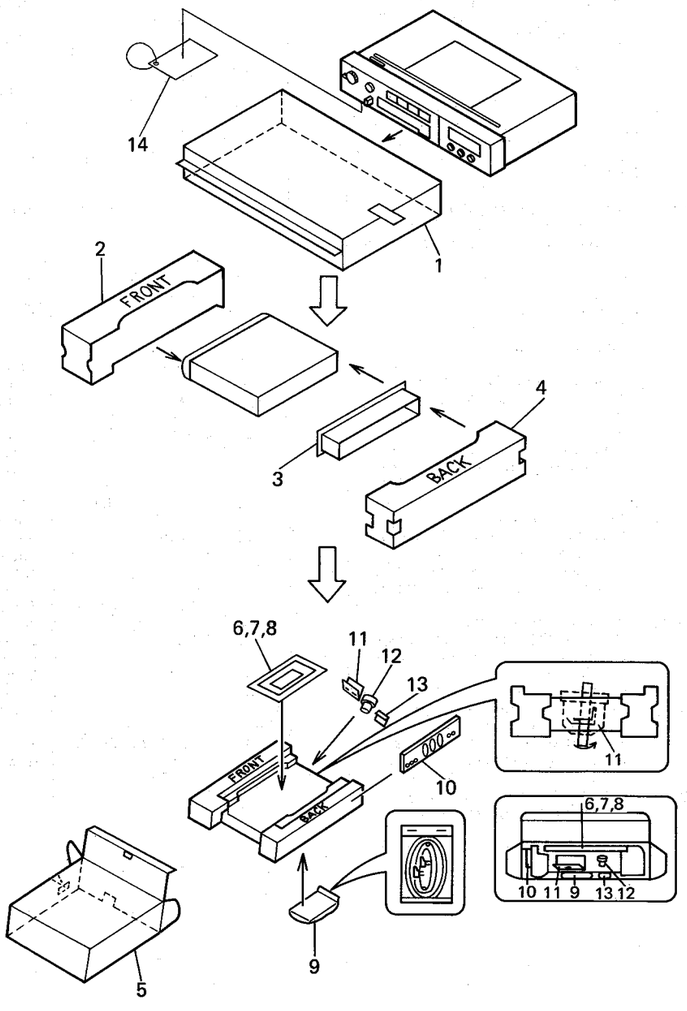
N° de Broche	Nom	Entrée/ Sortie	Fonction
1 ~ 4	LCD4 ~ LCD1	Sortie	Borne pour envoyer le signal de segment au panneau LCD.
5 6	COM2 COM1	Sortie	Borne pour envoyer le signal commun au panneau LCD.
7	VDD	—	Borne d'alimentation pour alimenter 5V ± 10% en état de fonctionnement (Cette broche est relié à la broche 33.)
8	VCOH (FM)	Entrée	Introduit la sortie d'oscillation locale de 10 à 150 MHz. Cette borne est automatiquement mise en "Pull-Down" lorsque la borne AM "VCOL" est sélectionnée.
9	VCOL (AM)	Entrée	Introduit la sortie d'oscillation locale de 0,6 à 50 MHz. Cette borne est automatiquement mise en "Pull-Down" lorsque la borne FM "VCOH" est sélectionnée.
10	GND	—	Broche de mise à la terre.
11 12	EO1 EO2	Sortie	Borne de sortie d'erreur PLL. Les sorties de EO1 et EO2 ont la même forme d'ondes. On peut choisir l'un des deux librement.
13	CE	Entrée	Entrée du signal de sélection Haut niveau: Fonctionnement normal Bas niveau: PLL est en état non permis c'est-à-dire, en état interdit.
14	NC	—	Aucune connexion.
15 16	XI XO	Entrée	Borne de connexion pour oscillateur à cristal de 4,5 MHz.
17 ~ 20	PA3 ~ PA0	—	Porte d'entrée/sortie de 4 bits. L'affectation d'entrée/sortie pour chaque bit est possible.
21 ~ 24	K3 ~ K0	Entrée	Porte d'entrée de 4 bits. Elle est utilisée pour l'entrée matrice de touche.
25 ~ 28	PB3 ~ PB0	Sortie	Porte d'entrée de 4 bits. Elle est utilisée comme source signal de retour de touche car le courant synchronisé est réduit à cause de la configuration spécifique.
29 ~ 32	PC3 ~ PC0	Sortie	Porte de sortie de 4 bits. PC3 et PC2 sont pareillement utilisés aux bornes PB0 à PB3.
33	VDD	—	Borne d'alimentation de 5V ± 10% en état de fonctionnement. (Cette broche est relié à la borhce 7.)
34 ~ 52	LCD23 ~ LCD5	Sortie	Borne pour envoyer le signal de segment au panneau LCD.

RG-F551G/553G
RG-F552E/554E

PACKING METHOD (RG-F552E/554E ONLY)

SETTING POSITIONS OF SWITCHES AND KNOBS	
Power Switch	OFF
Balance Control	CENTER
Tone Control	CENTER
Fader	CENTER

1.	Polyethylene Bag, Unit	SSAKH0024AGZZ
2.	Packing Add., Front	SPAKAV006AFZZ
3.	Case, Unit	PCASZ0052AFFW
4.	Packing Add., Rear	SPAKAV007AFZZ
5.	Packing Case (552E)	SPAKCV026AFZZ
	(554E)	SPAKCV027AFZZ
6.	Warranty Card	TGANE1117AFZZ
7.	Operation Manual	TiNSEV004AFZZ
8.	Burglar, Sticker	TLABZV016AFZZ
9.	Cord Ass'y	QKiTZ0102AFZZ
10.	Bracket, Unit	LANGT1348AFFW
11.	Spacer, Unit	PSPAZ0164AFZZ
12.	Cushion, Rubber	PGUMM0180AFZZ
13.	Pin Ass'y	QKiTZ0107AFZZ
14.	Label, Caution	TCAUHV003AFZZ



Ⓔ MECHANICAL ADJUSTMENT

ITEM	USING JIG	ADJUSTMENT POINTS	REMARKS (CHECK)
Pinch Roller Pressure	Tension gauge (500 g)	Pinch roller pressure spring	300 – 430 g * If the reading is outside the range, replace the pressure spring of the pinch roller.
Torque	Torque meter Playback TW-2111 Fast-forward TW-2111	———	(Playback: 45 – 80 g-cm) (Fast-forward: 45 – 80 g-cm)
Azimuth	Test tape MTT-113	Azimuth adjusting screw	Sine waveform attains the maximum.
Tape Speed	Test tape MTT-111	Variable resistor on motor	(3,000 ± 60 Hz)

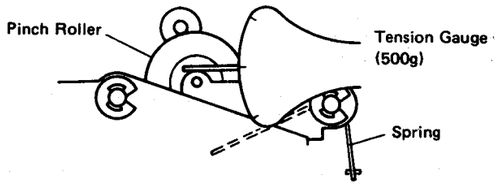


Figure 10–1 PINCH ROLLER PRESSURE

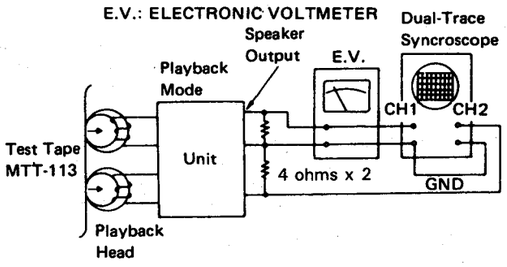


Figure 10–2 AZIMUTH

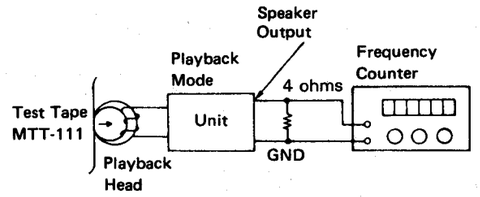


Figure 10–3 TAPE SPEED

Ⓓ MECHANISCHE EINSTELLUNG

BE-NENNUNG	VER-WENDETES MESSGERÄT	EINSTELL-PUNKT	BEMERKUNGEN (PRÜFUNG)
Andruck-rollen-druck	Federwaage (500 g)	Andruckrollen-druckfeder	300 – 430 g * Wenn ein anderer Wert angezeigt wird, die Druck-feder der Andruckrolle answechseln.
Dreh-moment	Drehmoment-messer Wiedergabe, Vorwärts: TW-2111 Schnellvorlauf: TW-2111	———	(Wiedergabe, Vorwärts: 45 – 80 g-cm) (Schnellvorlarf: 45 – 80 g-cm)
Azimut	Testband MTT-113	Azimuteinstell-schraube	Sinuswellenform wird maximal.
Bandge-schwindig-keit	Testband MTT-111	Stellwiderstand am Motor	(3,000 ± 60 Hz)

Ⓕ RÉGLAGE DE MÉCHANISME

ARTICLE	GABARIT	POINTS DE RÉGLAGE	REMARQUES (VÉRIFICATION)
Pression du galet pinceur	Jauge de tension (500 g)	Ressort de pression du galet pinceur	300 – 430 g * Si l'indication par la jauge est hors de la gamme, remplacer le ressort de pression du galet pinceur.
Couple	Compteur de couple Lecture, Avance; TW-2111 Avance rapide: TW-2111	———	(Lecture, Avance: 45 à 80 g-cm) (Avance rapide: 45 à 80 g-cm)
Azimut	Bande d'essai MTT-113	Vis de réglage de l'azimut	La forme d'onde sinusoïdale atteint
Vitesse de la bande	Bande d'essai MTT-111	Résistance variable sur le moteur	(3,000 ± 60 Hz)

Ⓔ

CIRCUIT ADJUSTMENT (TUNER SECTION)

CLOCK REFERENCE FREQUENCY ADJUSTMENT

Set the receiving frequency band to FM.

FREQUENCY DISPLAY	ADJUSTMENT	REMARKS
108.0 MHz	TC801	118.7 MHz ±2kHz

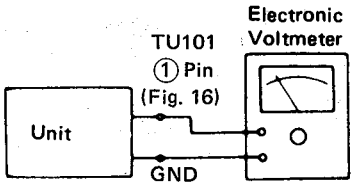


Figure 12–1 CLOCK REFERENCE FREQUENCY

FM IF AND FM SIGNAL DETECTOR OUTPUT VOLTAGE ADJUSTMENT

SWITCH POSITION		FM mono			
SIGNAL GENERATOR		1 kHz, 30%, FM modulated			
STEP	TEST STAGE	FREQUENCY	FREQUENCY DISPLAY	ADJUSTMENT	REMARKS
1	IF	98.0 MHz at 54 dB	98.0 MHz	T1	Adjust for maximal output.

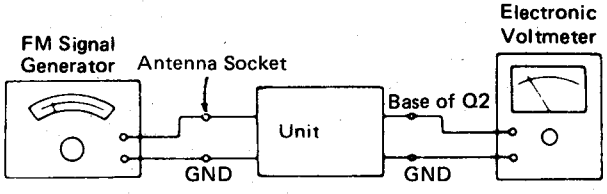


Figure 12–2 IF

FM STEREO SEPARATION ADJUSTMENT

SWITCH POSITION	FM stereo		
SIGNAL GENERATOR	400 Hz, 22.5 kHz dev, FM modulated		
FREQUENCY	FREQUENCY DISPLAY	ADJUSTMENT	REMARKS
98.0 MHz 74 dB	98.0 MHz	VR201 (Fig. 16)	Adjust for minimum separation.

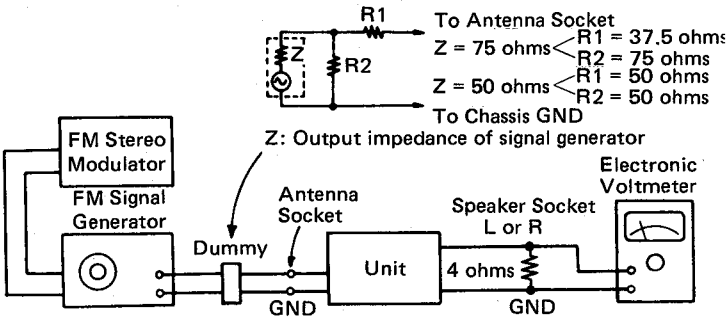


Figure 12–3 IF/SEPARATION

VCO FREQUENCY ADJUSTMENT

SIGNAL GENERATOR	400 Hz, 22.5 kHz dev, FM modulated (mono signal)		
FREQUENCY	FREQUENCY DISPLAY	ADJUSTMENT	REMARKS
FM mono position		FM stereo position (unmodulated)	
98.0 MHz at 60 dB	98.0 MHz	VR202 (Fig. 16)	Adjust for 19.00 kHz ±50 Hz.

ANSS ADJUSTMENT

SWITCH POSITION	FM mono		
SIGNAL GENERATOR	400 Hz, 22.5 kHz dev, FM modulated		
FREQUENCY	FREQUENCY DISPLAY	ADJUSTMENT	REMARKS
19 kHz	108.0 MHz	L51	Adjust for minimum output.

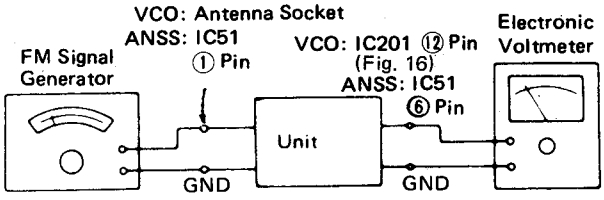


Figure 12–4 VCO/ANSS

Ⓓ SCHALTUNGSEINSTELLUNG (TUNERTEIL)

ABGLEICH DER UHRENBEZUGSFREQUENZ

Die Empfangsfrequenz auf das UKW einstellen.

FREQUENZANZEIGE	EINSTELLUNG	BEMERKUNGEN
108,0 MHz	TC801	118,7 MHz ±2 kHz

AUSGANGSSPANNUNGSABSTIMMUNG FÜR UKW-ZF- UND UKW-SIGNALDETEKTOR

SCHALTER-STELLUNG		UKW-Wellenband			
SIGNAL-GENERATOR		1 kHz, 30%, UKW-Modulation			
SCH-RITT	PRÜF-STUFE	FRE-QUENZ	FREQUENZ-ANZEIGE	EINSTEL-LUNG	BEMER-KUNGEN
1	ZF	98,0 MHz bei 54 dB	98,0 MHz	T1	Den kern Auf Maximalen Ausgang einstellen.

EINSTELLUNG DER UKW-TRENNUNG

SCHALTER-STELLUNG	FM stereo		
SIGNAL-GENERATOR	400 Hz, 22,5 kHz Hub, UKW-Modulation		
FREQUENZ	FREQUENZ-ANZEIGE	EINSTEL-LUNG	BEMER-KUNGEN
98,0 MHz 74 dB	98,0 MHz	VR201 (Abb. 16)	Auf minimum Trennung einstellen.

EINSTELLUNG DER VCO-FREQUENZ

SIGNAL-GENERATOR	400 Hz, 22,5 kHz Hub, UKW-Modulation (Mono-Signal)		
FREQUENZ	FREQUENZ-ANZEIGE	EINSTEL-LUNG	BEMERKUNGEN
FM mono-Position		FM stereo-Position (unmoduliert)	
98,0 MHz bei 60 dB	98,0 MHz	VR202 (Abb. 16)	Auf 19,00 kHz ± 50 Hz einstellen.

ANSS-EINSTELLUNG

SCHALTER-STELLUNG	FM mono		
SIGNAL-GENERATOR	400 Hz, 22,5 kHz Hub, UKW-Modulation		
FREQUENZ	FREQUENZ-ANZEIGE	EINSTEL-LUNG	BEMER-KUNGEN
19 kHz	108,0 MHz	L51	Den kern Auf minimum Ausgang einstellen.

Ⓕ RÉGLAGE DU CIRCUIT (SECTION DU TUNER)

RÉGLAGE DE LA FREQUENCE DE REFERENCE DE LA MONTRE

Régler la gamme de fréquence de réception sur FM.

AFFICHAGE DE FRÉQUENCE	RÉGLAGE	REMARQUES
108,0 MHz	TC801	118,7 MHz ±2 kHz

RÉGLAGE DE LA TENSION DE SORTIE DU DÉTECTEUR DE SIGNAL FM ET DE FI FM

POSITION DU COMMUTATEUR		FM Mono			
GÉNÉRATEUR DE SIGNAUX		1 kHz, 30%, modulé FM			
ÉTAPE	ÉTAGE D'ESSAI	FRÉ-QUENCE	AFFICHAGE DE FRÉ-QUENCE	RÉGLAGE	REMARQUES
1	FI	98,0 MHz à 54 dB	98,0 MHz	T1	Régler sur la sortie maximale.

RÉGLAGE DE LA SÉPARATION FM STÉRÉO

POSITION DU COMMUTATEUR	FM stéréo		
GÉNÉRATEUR DE SIGNAUX	400 Hz, dév. de 22,5 kHz, modulé FM		
FRÉQUENCE	AFFICHAGE DE FRÉ-QUENCE	RÉGLAGE	REMARQUES
98,0 MHz 74 dB	98,0 MHz	VR201 (Fig. 16)	Régler pour que la séparation soit minimale.

RÉGLAGE DE LA FRÉQUENCE VCO

GÉNÉRATEUR DE SIGNAUX	400 Hz, dév. de 22,5 kHz, modulé FM (mono signal)		
FRÉQUENCE	AFFICHAGE DE FREQUENCE	RÉGLAGE	REMARQUES
Position FM mono		Position FM stéréo (non modulés)	
98,0 MHz à 60 dB	98,0 MHz	VR202 (Fig. 16)	Réglage sur 19,00 kHz ± 50 Hz.

RÉGLAGE DE L'ANSS

POSITION DU COMMUTATEUR	FM mono		
GÉNÉRATEUR DE SIGNAUX	400 Hz, dév. de 22,5 kHz, modulé FM		
FRÉQUENCE	AFFICHAGE DE FRÉ-QUENCE	RÉGLAGE	REMARQUES
19 kHz	108,0 MHz	L51	Régler sur la sortie minimale.

Ⓔ

MW/LW IF/RF ADJUSTMENT

SIGNAL GENERATOR		400 Hz, 30%, AM modulated			
STEP	TEST STAGE	FRE-QUENCY	FRE-QUENCY DISPLAY	ADJUST-MENT	REMARKS
MW/LW IF (Set the receiving frequency band to MW.)					
1	IF	450 kHz	281 kHz	T101 T102	Adjust for best "IF" curve.
MW RF (Set the receiving frequency band to MW.)					
2	Tracking	1,395kHz	1,395kHz	L101 L103	Adjust for maximal output.
LW RF (Set the receiving frequency band to LW.)					
3	Tracking	272 kHz	272 kHz	L102 L104	Adjust for maximal output.

Note: Perform the Band coverage adjustment for MW prior to the one for LW, and carry out the tracking for LW prior to that for MW.

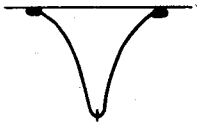


Figure 14–1 AM "IF" CURVE

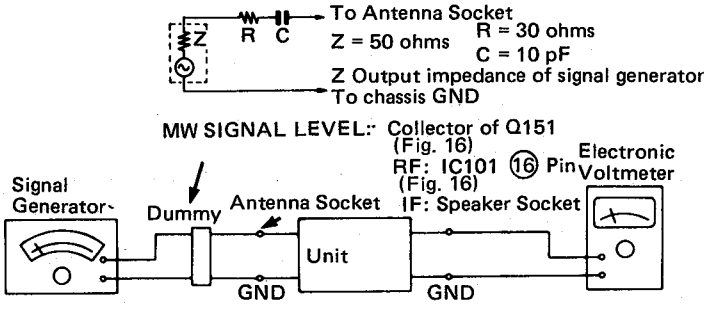


Figure 14–2 MW/LW IF/RF/MW SIGNAL LEVEL

MW SIGNAL LEVEL ADJUSTMENT

SIGNAL GENERATOR	50 dB, Unmodulated		
FREQUENCY	FRE-QUENCY DISPLAY	ADJUST-MENT	REMARKS
999 kHz	999 kHz	VR151	2 ± 0.1 V

AUTO NOISE CUT LEVEL ADJUSTMENT

SWITCH POSITION	FM mono		
SIGNAL GENERATOR	6.3 kHz, 30 %, FM modulated = 0 dB		
FRE-QUENCY	FRE-QUENCY DISPLAY	ADJUST-MENT	REMARKS
98.0 MHz 50 dB	98.0 MHz	VR1	Adjust VR1 so that the output is changed from 0 dB to −3 dB when the input is reduced from 74 dB to 45 dB.

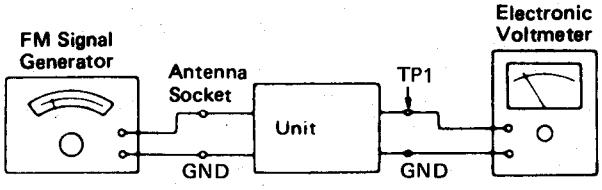


Figure 14–3 AUTO NOISE CUT LEVEL

Ⓓ

MW/LW-ZF/HF EINSTELLUNG

SIGNAL-GENERATOR		400 Hz, 30%, AM-Modulation			
SCHRITT	PRÜFSTUFE	FREQUENZ	FREQUENZANZEIGE	EINSTELLUNG	BEMERKUNGEN
MW/LW ZF (Die Empfangsfrequenz auf das MW-Wellenband einstellen.)					
1	ZF	450 kHz	281 kHz	T101 T102	Auf beste ZF-Kurve einstellen.
MW HF (Die Empfangsfrequenz auf das MW-Wellenband einstellen.)					
2	Gleichlauf	1395 kHz	1395 kHz	L101 L103	Auf maximalen Ausgang einstellen.
LW HF (Die Empfangsfrequenz auf das LW-Wellenband einstellen.)					
3	Gleichlauf	272 kHz	272 kHz	L102 L104	Auf maximalen Ausgang einstellen.

Anmerkung: Die Frequenzbereich-Einstellung für das MW-Wellenband muß vor der Einstellung des LW-Bereiches vorgenommen werden. Die Abtastung für LW sollte vor der Einstellung für MW ausgeführt werden.

MW-SIGNALBSTIMMUNG

SIGNAL-GENERATOR	50 dB, Unmoduliert		
FREQUENZ	FREQUENZ-ANZEIGE	EINSTELLUNG	BEMERKUNGEN
999 kHz	999 kHz	VR151	2 ± 0,1 V

PEGELEINSTELLUNG DER AUTOMATISCHEN RAUSCHUNTERDRÜCKUNG

SCHALTER-STELLUNG	UKW-Wellenband		
SIGNAL-GENERATOR	6,3 kHz, 30%, modulé FM = 0 dB		
FREQUENZ	FREQUENZANZEIGE	EINSTELLUNG	BEMERKUNGEN
98,0 MHz 50 dB	98,0 MHz	VR1	VR1 so einstellen, daß der Ausgang von 0 dB auf −3 dB geändert wird, wenn der Eingang von 74 dB auf 45 dB reduziert.

Ⓕ

RÉGLAGE DE FI/RF PO/GO

GÉNÉRATEUR DE SIGNAUX		400 Hz, 30%, modulé AM			
ÉTAPE	ÉTAGE D'ESSAI	FRÉQUENCE	AFFICHAGE DE FRÉQUENCE	RÉGLAGE	REMARQUES
FI PO/GO (Régler la gamme de fréquence de réception sur PO.)					
1	FI	450 kHz	281 kHz	T101 T102	Régler sur la meilleure courbe "FI".
RF PO (Régler la gamme de fréquence de réception sur PO.)					
2	Alignement	1395 kHz	1395 kHz	L101 L103	Régler sur la sortie maximale.
RF GO (Régler la gamme de fréquence de réception sur GO.)					
3	Alignement	272 kHz	272 kHz	L102 L104	Régler sur la sortie maximale.

Note: Effectuer le réglage de Couverture de gamme d'ondes pour PO avant celui de GO; et effectuer le pistage de GO avant celui de PO.

RÉGLAGE DU NIVEAU DE SIGNAL PO

GÉNÉRATEUR DE SIGNAUX	50 dB, Non modulés		
FRÉQUENCE	AFFICHAGE DE FRÉQUENCE	RÉGLAGE	REMARQUES
999 kHz	999 kHz	VR151	2 ± 0,1 V

RÉGLAGE DU NIVEAU DE COUPURE AUTOMATIQUE DE BRUITS

POSITION DU COMMUTATEUR	FM mono		
GÉNÉRATEUR DE SIGNAUX	6,3 kHz, 30%, modulé FM = 0 dB		
FRÉQUENCE	AFFICHAGE DE FRÉQUENCE	RÉGLAGE	REMARQUES
98,0 MHz 50 dB	98,0 MHz	VR1	Régler VR1 de telle sorte que la sortie passe de 0 dB à −3 dB lorsque l'entrée est réduite de 74 dB à 45 dB.

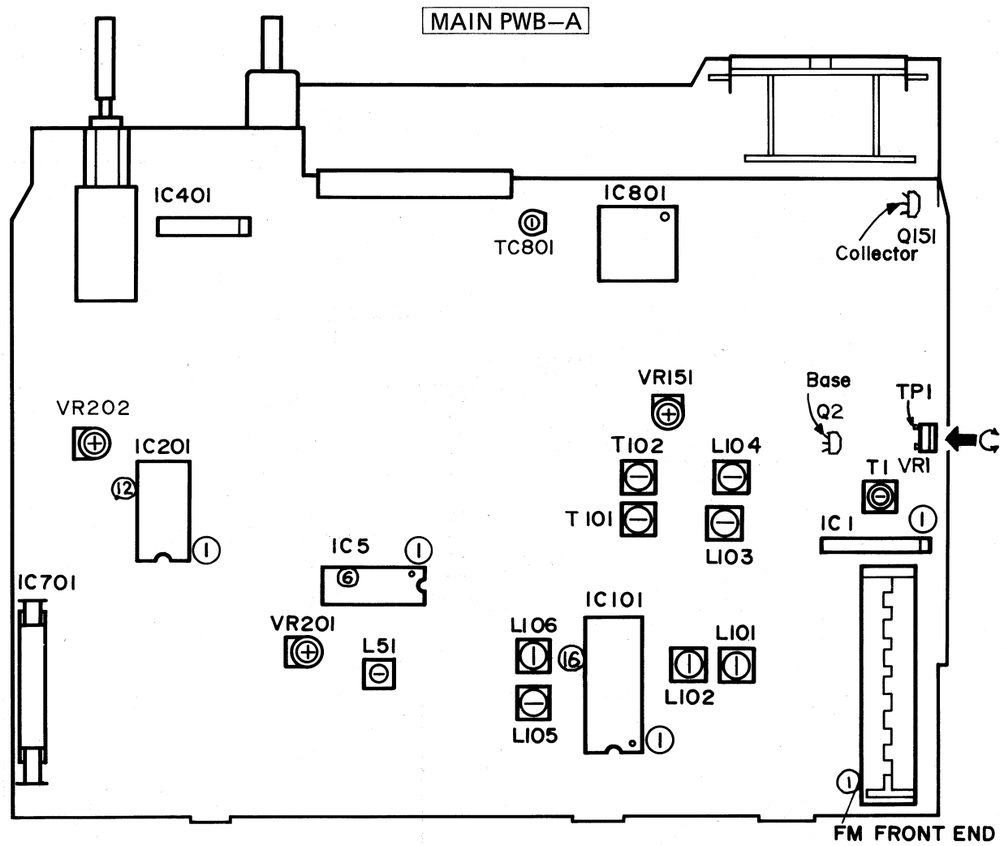
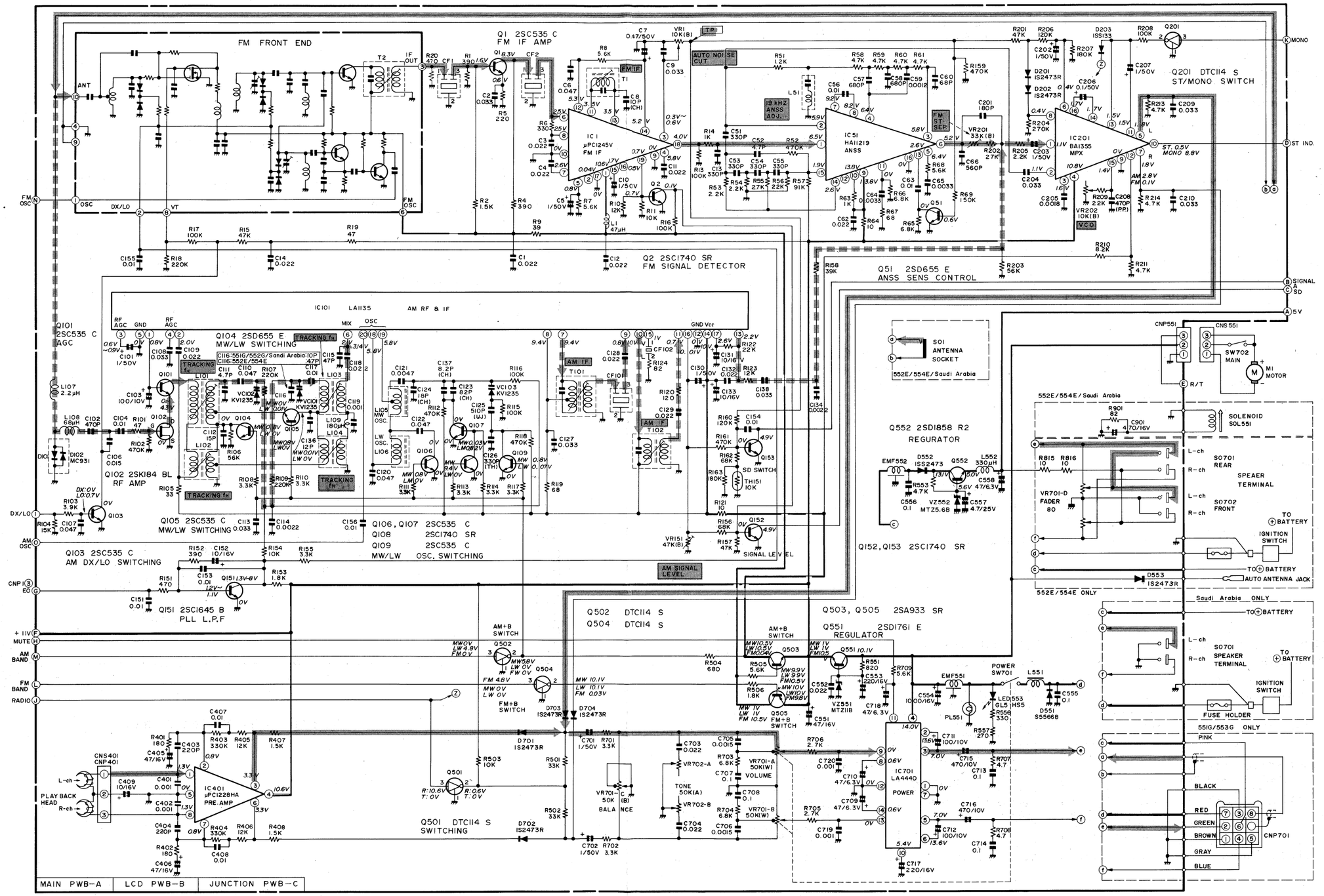


Figure 16 ADJUSTMENT POINTS

RG-F551G/553G
RG-F552E/554E



- NOTES ON SCHEMATIC DIAGRAM can be found on page 22.
- ANMERKUNGEN ZUM SCHEMATISCHEN SCHALTPLAN stehen auf Seite 22.
- REMARQUES CONCERNANT LE DIAGRAMME SCHÉMATIQUE sont indiquées à la page 22.

+B — FM Signal — MW/LW Signal — Playback Signal

Figure 17 SCHEMATIC DIAGRAM (1/2)

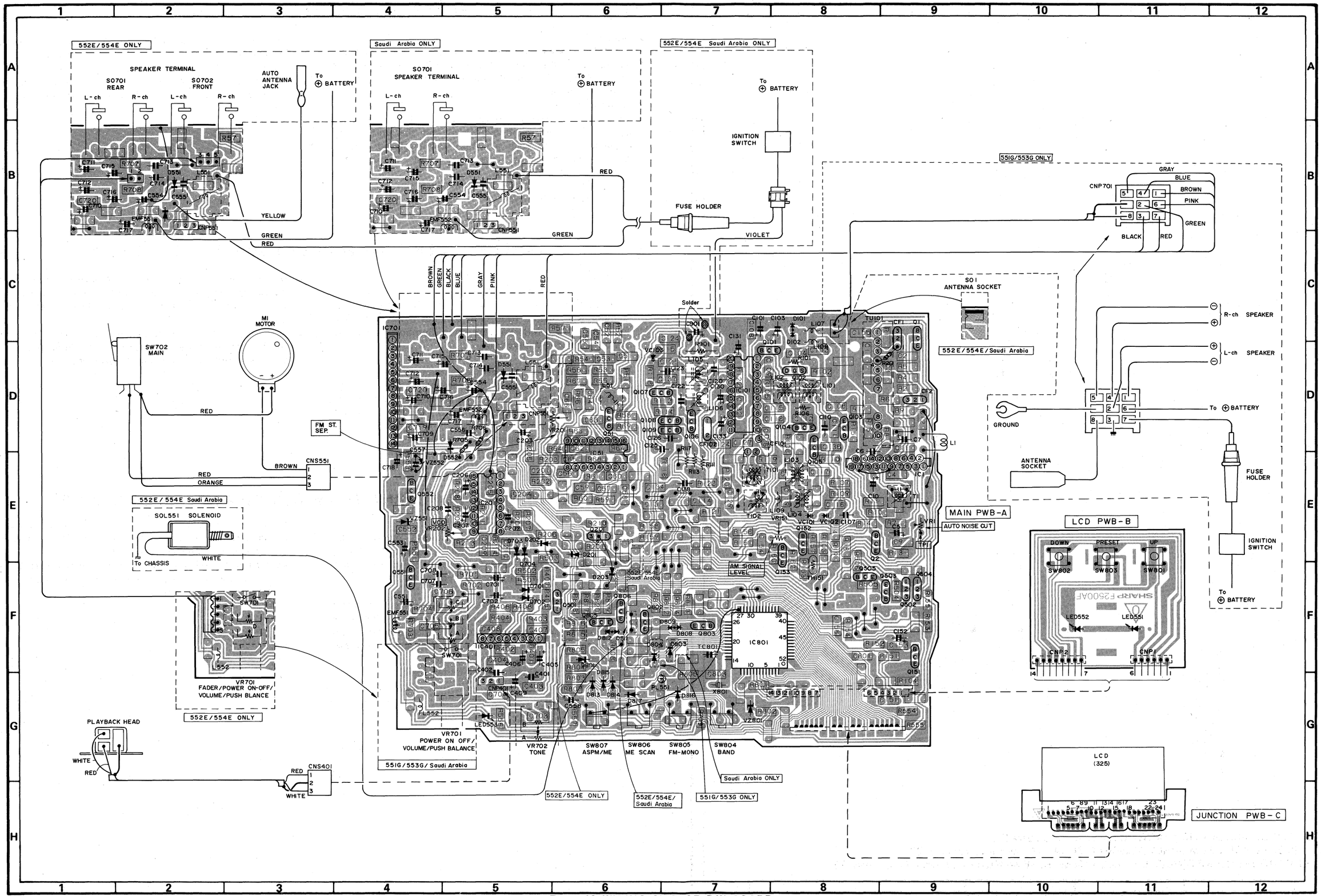
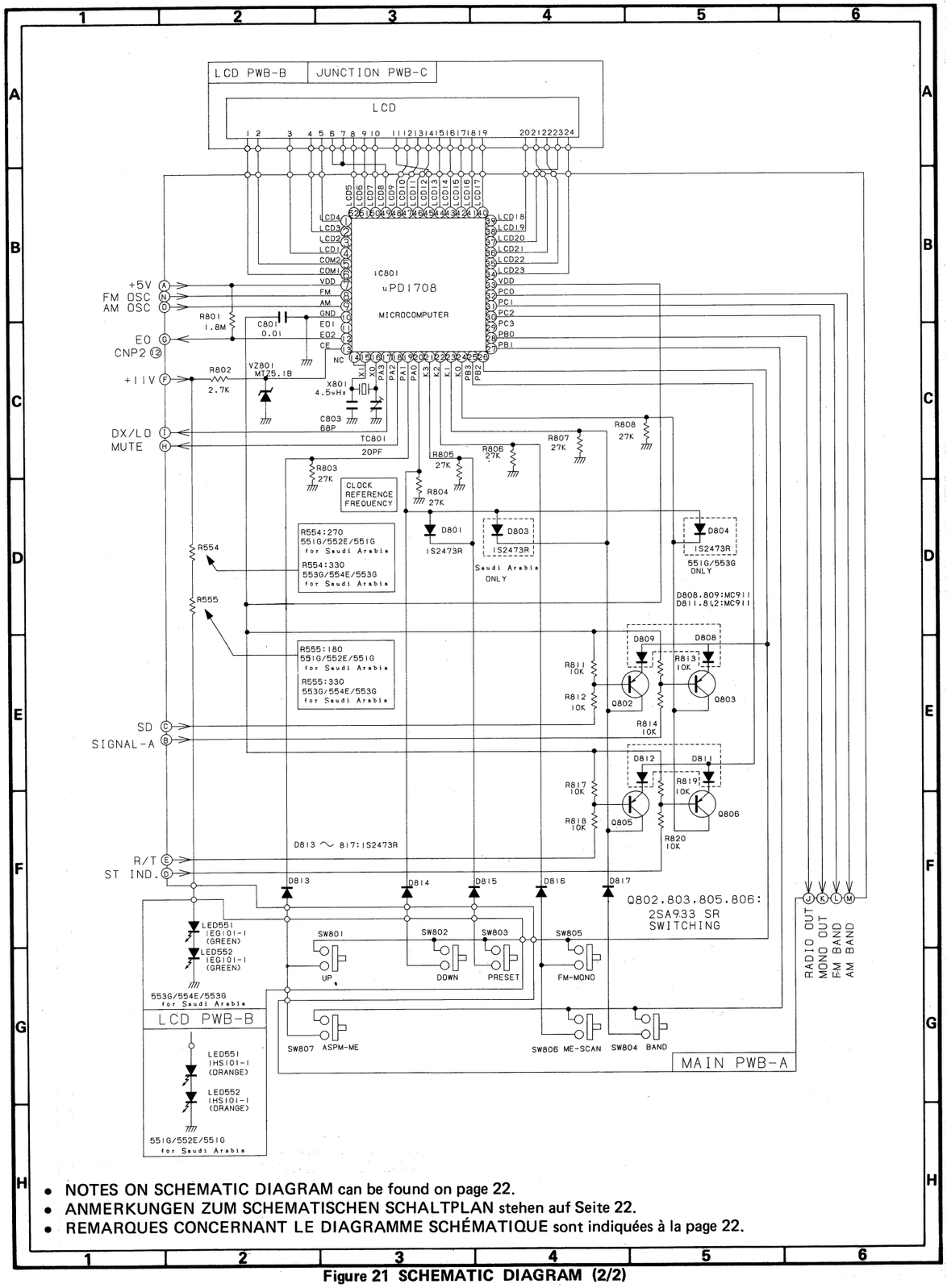


Figure 19 WIRING SIDE OF P.W. BOARD

RG-F551G/553G
RG-F552E/554E



• NOTES ON SCHEMATIC DIAGRAM can be found on page 22.
• ANMERKUNGEN ZUM SCHEMATISCHEN SCHALTPLAN stehen auf Seite 22.
• REMARQUES CONCERNANT LE DIAGRAMME SCHÉMATIQUE sont indiquées à la page 22.

Figure 21 SCHEMATIC DIAGRAM (2/2)

(E) NOTES ON SCHEMATIC DIAGRAM

- Resistor:
  To differentiate the units of resistors, such symbol as K and M are used: the symbol K means 1000 ohm, symbol M means 1000 kohm and the resistor without any symbol is ohm-type resistor.
- Capacitor:
  To indicate the unit of capacitor, a symbol P is used: this symbol P means micro-microfarad and the unit of the capacitor without such a symbol is microfarad. As to electrolytic capacitor, the expression "capacitance/withstand voltage" is used.
  (CH), (UJ), (TH): Temperature compensation
  (P.P.): Polyethylene type
- The indicated voltage in each section is the one measured by Digital Multimeter between such a section and the chassis with no signal given
- Schematic diagram and Wiring Side of P.W.Board for this model are subject to change for improvement without prior notice.

(D) ANMERKUNGEN ZUM SCHEMATISCHEN SCHALTPLAN

- Widerstände:
  Um die Einheiten der Widerstände unterscheiden zu können, werden Symbole wie K und M benutzt. Das Symbol K bedeutet 1000 ohm und das Symbol M 1000 kiloohm. Bei Widerständen ohne Symbol handelt es sich um ohmsche Widerstände.
- Kondensatoren:
  Zum Bezeichnen der Kondensatoreinheit wird das Symbol P benutzt; dieses Symbol P bedeutet Nanofarad. Die Einheit eines Kondensators ohne Symbol ist Mikrofarad. Für Elektrolytkondensatoren wird die Bezeichnung "Kapazität/Stehspannung" benutzt.
  (CH), (UJ), (TH): Temperaturkompensation
  (P.P.): Polypropylentyp
- Die in den einzelnen Teilen angegebenen Spannungen werden mit einem Digitalvielfachmeßgerät zwischen dem betreffenden Teil und dem Chassis ohne Signalzuleitung gemessen.
- Änderungen des schematischen Schaltplans und der Verdrahtungsseite der Leiterplatte für dieses Modell im Sinne von Verbesserungen jederzeit vorbehalten.

(F) REMARQUES CONCERNANT LE DIAGRAMME SCHÉMATIQUE

- Résistance:
  Pour différencier les unités de résistances, on utilise des symbole tels que K et M le symbole K signifie 1000 ohms, le symbole signifie M 1000 Kohms et la résistance donnée sans symbole est une résistance de type ohm.
- Condensateur:
  Pour indiquer l'unité de condensateur, on utilise le symbole P; ce symbole P signifie micro-microfarad, et l'unité de condensateur donnée sans ce symbole est le microfarad. En ce qui concerne le condensateur électrolytique, on utilise l'expression "tension de régime/capacité".
  (CH), (UJ), (TH): Compensation de température
  (P.P.): Type Polypropylène
- La tension indiquée dans chaque section est celle mesurée par un multimètre numérique entre la section en question et le châssis, en l'absence de tout signal.
- Le diagramme schématique et le côté câblage de la PMI de ce modèle sont sujets à modifications sans préavis pour l'amélioration de ce produit.

μPD1708

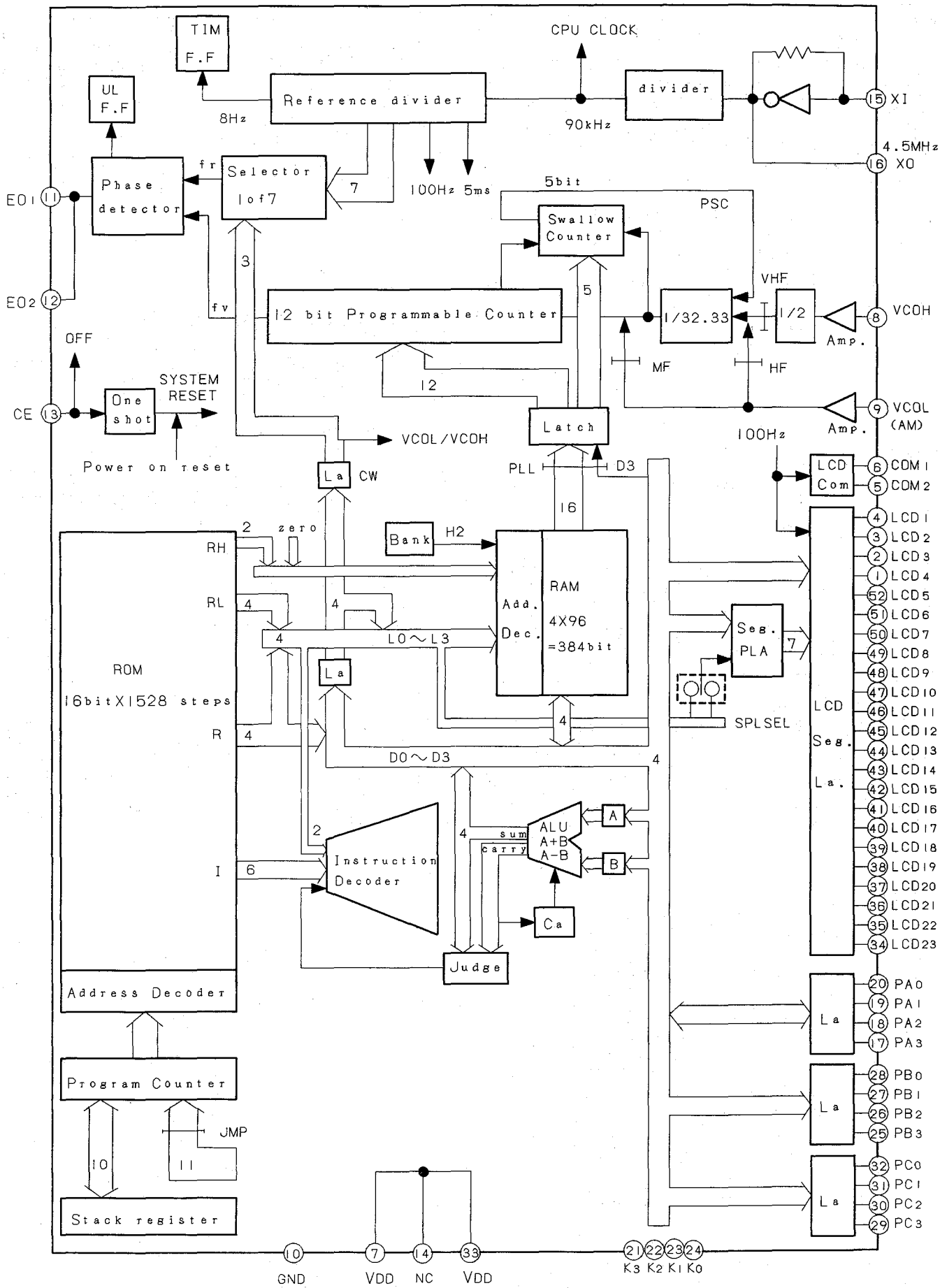
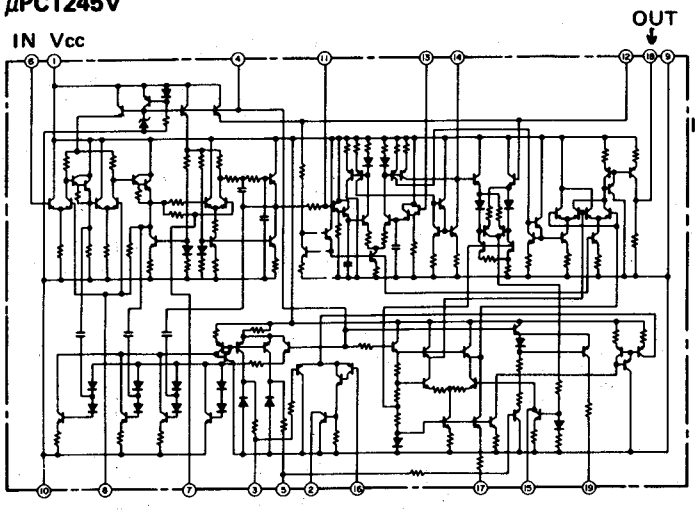
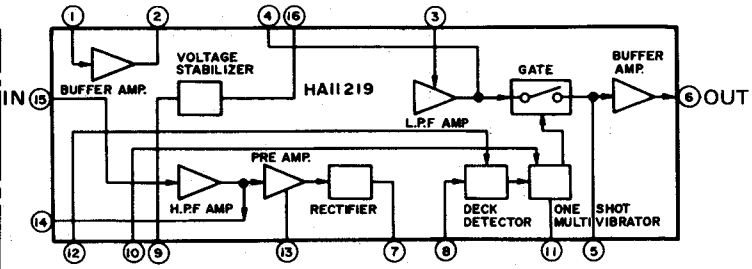


Figure 23 EQUIVALENT CIRCUIT (BLOCK DIAGRAM) OF IC

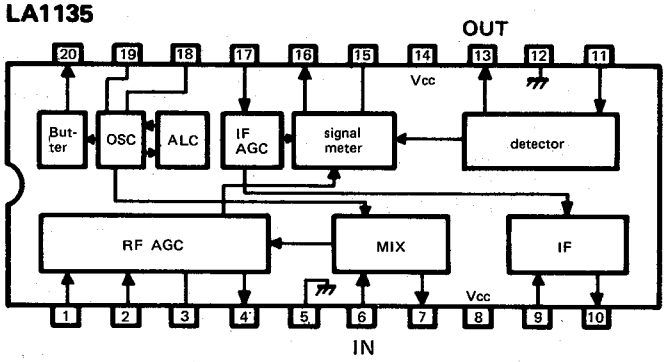
μPC1245V



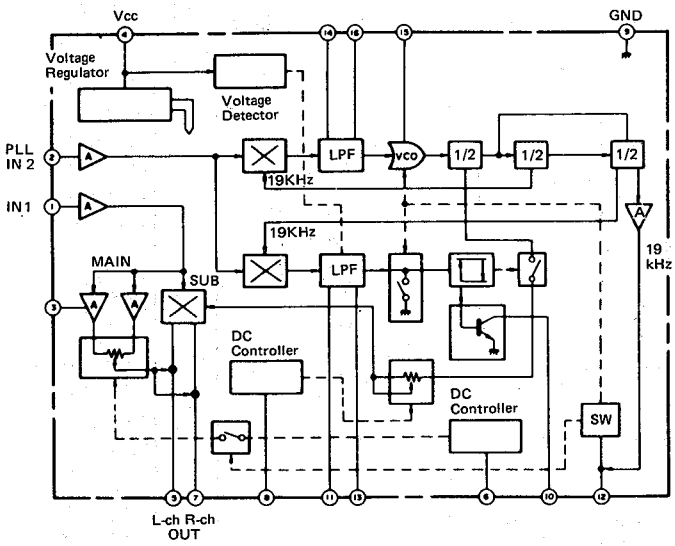
HA11219



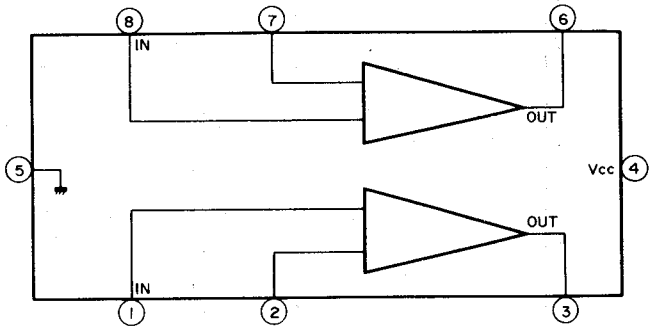
LA1135



BA1355



μPC1228HA



LA4440

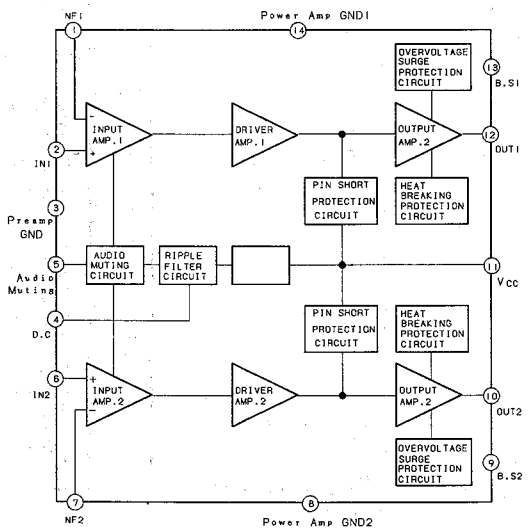


Figure 24 EQUIVALENT CIRCUIT (BLOCK DIAGRAM) OF IC

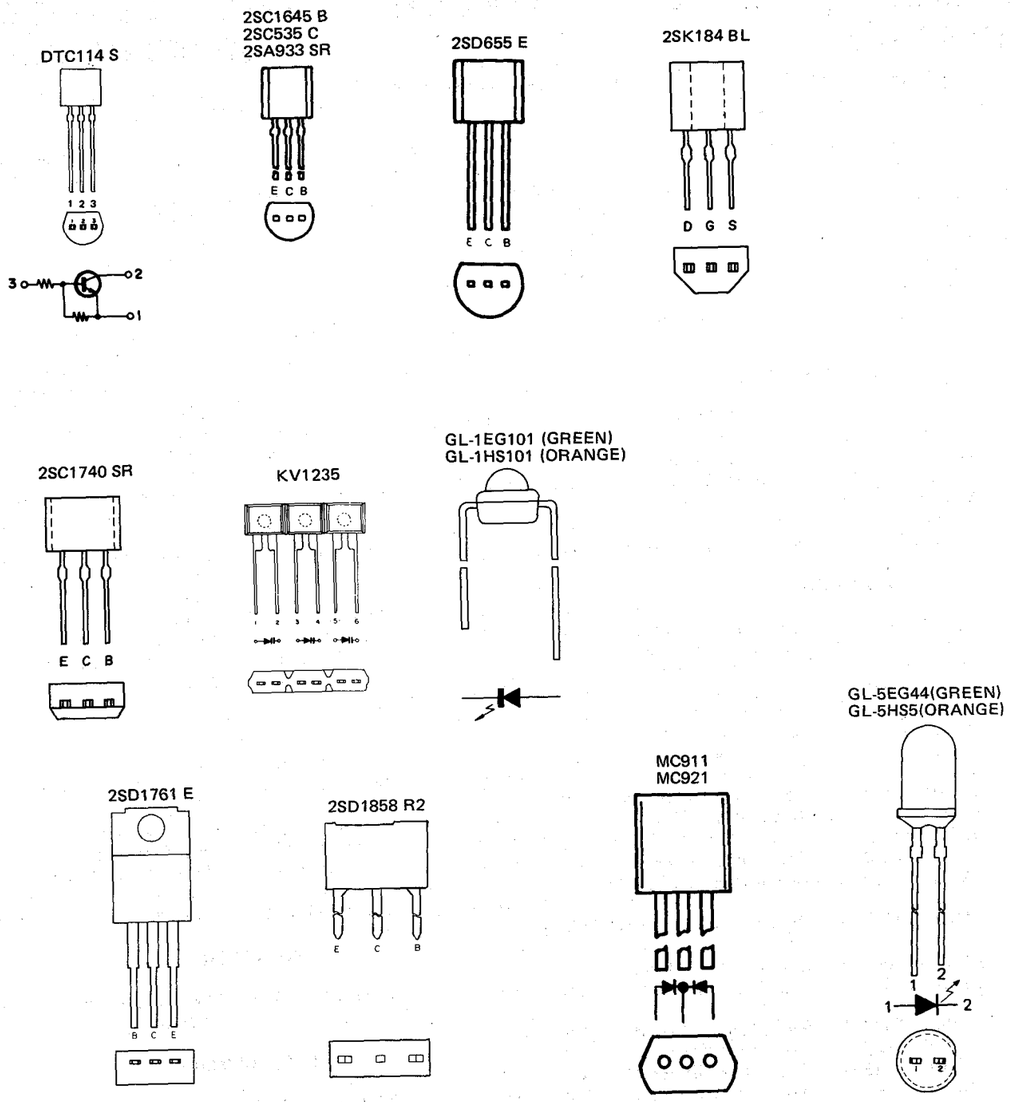


Figure 25 TYPES OF TRANSISTOR AND LED

RG-F551G/553G
RG-F552E/554E

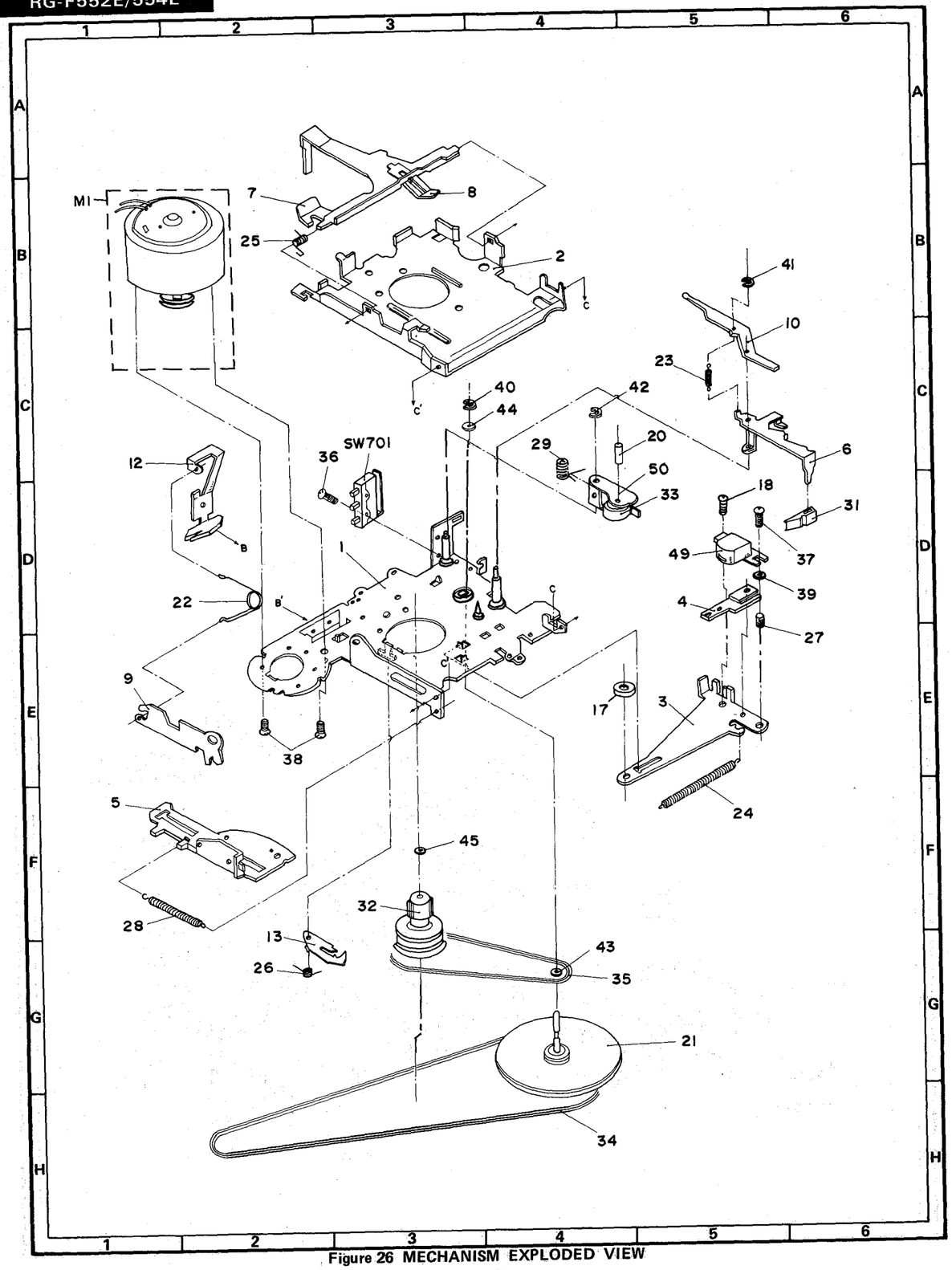


Figure 26 MECHANISM EXPLODED VIEW

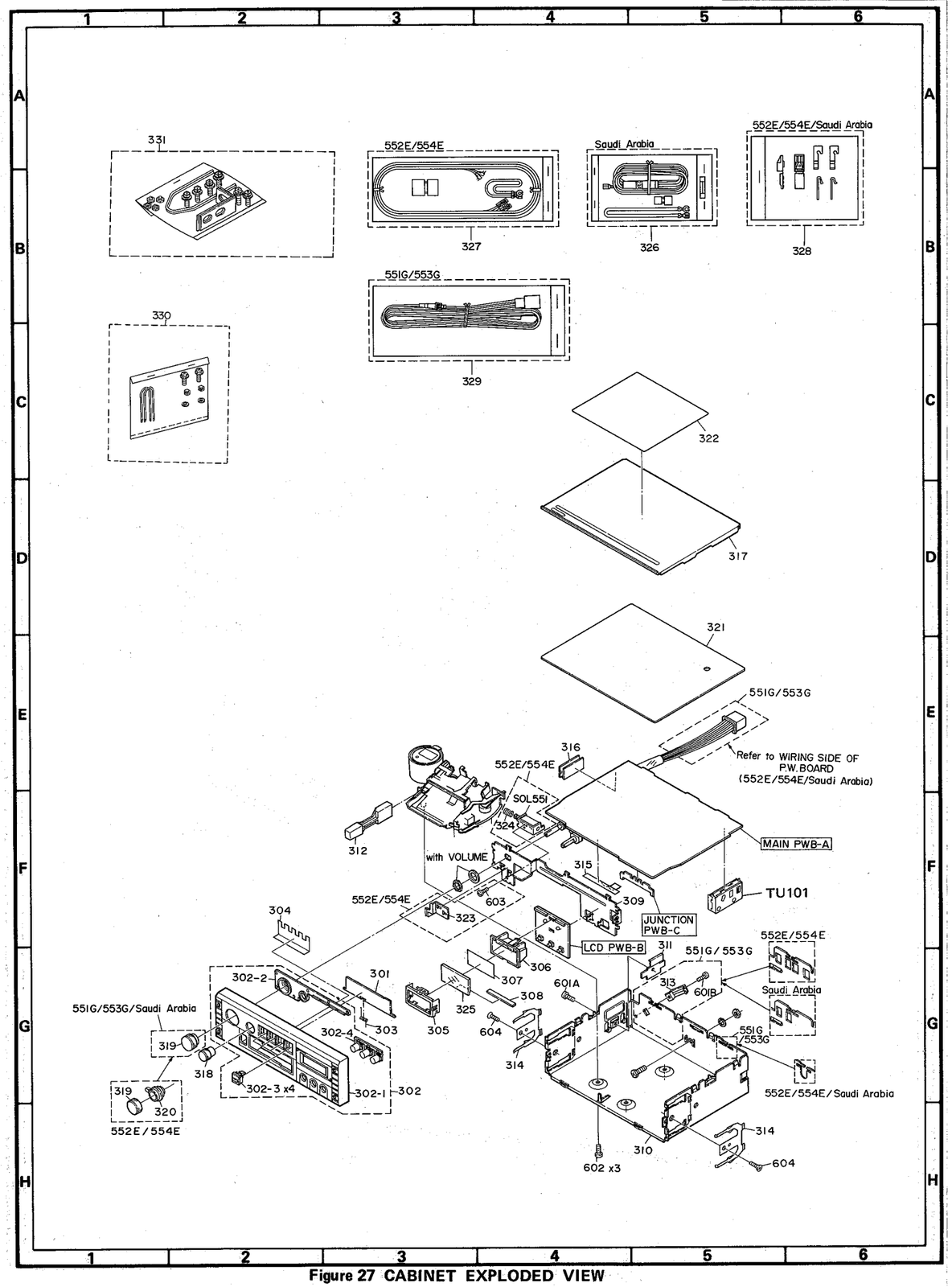


Figure 27 CABINET EXPLODED VIEW

Ⓔ REPLACEMENT PARTS LIST

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following information.

1. MODEL NUMBER
2. REF. NO.
3. PART NO.
4. DESCRIPTION

Ⓓ ERSATZTEILLISTE

"BESTELLEN VON ERSATZTEILEN"

Um Ihren Auftrag schnell und richtig ausfuhren zu können, bitten wir um diefolgenden Angaben.

1. MODELLNUMMER
2. REF. NR.
3. TEIL NR.
4. BESCHREIBUNG

Ⓕ LISTE DES PIÈCES DE RECHANGE

"COMMENT COMMANDER DES PIÈCES DE RECHANGE"

Pour voir votre commande exécutée de manière rapide et correcte, veuillez fournir les renseignements suivants.

1. NUMÉRO DU MODÈLE
2. N° DE RÉFÉRENCE
3. N° DE LA PIÈCE
4. DESCRIPTION

REF.NO.	PART NO.	DESCRIPTION	CODE
INTEGRATED CIRCUITS			
IC1	VHiUPC1245V-1	FM IF,μPC1245V	A K
IC51	RH-iX1110AFZZ	ANSS,HA11219	A L
IC101	VHiLA1135//-1	AM RF/IF Amp.,LA1135	A L
IC201	VHiBA1355//-1	FM MPX,BA1355	A G
IC401	VHiUPC1228HA1	Pre Amp.,μPC1228HA	A E
IC701	VHiLA4440//-1	Power Amp.,LA4440	A M
IC801	RH-iX1423AFZZ	Microcomputer,μPD1708	A W
TRANSISTORS			
Q1	VS2SC535-C/-1	Silicon,NPN,2SC535 C	A C
Q2	VS2SC1740SR-1	Silicon,NPN,2SC1740 SR	A B
Q51	VS2SD655E//-1	Silicon,NPN,2SD655 E	A C
Q101	VS2SC535-C/-1	Silicon,NPN,2SC535 C	A C
Q102	VS2SK184BL/-1	FET,2SK184 BL	A C
Q103	VS2SC535-C/-1	Silicon,NPN,2SC535 C	A C
Q104	VS2SD655E//-1	Silicon,NPN,2SD655 E	A C
Q105~107	VS2SC535-C/-1	Silicon,NPN,2SC535 C	A C
Q108	VS2SC1740SR-1	Silicon,NPN,2SC1740 SR	A B
Q109	VS2SC535-C/-1	Silicon,NPN,2SC535 C	A C
Q151	VS2SC1645B/-1	Silicon,NPN,2SC1645 B	A C
Q152,153	VS2SC1740SR-1	Silicon,NPN,2SC1740 SR	A B
Q201	VSDTC114S//-1	Digital Transistor,DTC114 S	A B
Q501,502	VSDTC114S//-1	Digital Transistor,DTC114 S	A B
Q503	VS2SA933SR/-1	Silicon,PNP,2SA933 SR	A B
Q504	VSDTC114S//-1	Digital Transistor,DTC114 S	A B
Q505	VS2SA933SR/-1	Silicon,PNP,2SA933 SR	A B
Q551	VS2SD1761E/-1	Silicon,NPN,2SD1761 E	A D
Q552	VS2SD1858R2-1	Silicon,NPN,2SD1858 R2	A C
Q802,803	VS2SA933SR/-1	Silicon,PNP,2SA933 SR	A B
Q805,806	VS2SA933SR/-1	Silicon,PNP,2SA933 SR	A B
DIODES			
D101,102	VHDMC931///-1	Silicon,MC931	A C
D201,202	VHD1S2473/R-U	Silicon,1S2473R	A C
D203	VHD1SS133//-1	Silicon,1SS133	A B
D551	VHDS5566B//-1	Silicon,S5566B	A B
D552	VHD1S2473/R-U	Silicon,1S2473R	A C
D553	VHD11ES1///-1	Silicon,11ES1,552E/554E	A C
D701~704	VHD1S2473/R-U	Silicon,1S2473R	A C
D801	VHD1S2473/R-U	Silicon,1S2473R	A C
D803	VHD1S2473/R-U	Silicon,1S2473R,Saudi Arabia	A C
D804	VHD1S2473/R-U	Silicon,1S2473R,551G/553G	A C
D808,809	VHDMC911///-1	Silicon,MC911	A B
D811,812	VHDMC911///-1	Silicon,MC911	A B
D813~817	VHD1S2473/R-U	Silicon,1S2473R	A C
LED551,552	VHPGL1EG101-1	LED,Green,GL-1EG101,553G/554E/553G for Saudi Arabia	A C
LED551,552	VHPGL1HS101-1	LED,Orange,GL-1HS101,551G/552E/551G for Saudi Arabia	A C
LED553	VHPGL5EG44/-1	LED,Green,GL5EG44,553G/554E/553G for Saudi Arabia	A C
LED553	VHPGL5HS5//-1	LED,Orange,GL5HS5,551G/552E/551G for Saudi Arabia	A C
VC101~103	VHCKV1235Z2-1	Varicap,KV1235	A P
ZV551	VHEMTZ11B//-V	Zener,11V,MTZ11B	A B
ZV552	VHEMTZ5R6B/-V	Zener,5.6V,MTZ5.6B	A B
ZV801	VHEMTZ5R1B/-V	Zener,5.1V,MTZ5.1B	A B
FILTERS			
CF1,2	RFiLF0079AFZZ	FM IF	A F
CF101	RFiLA0103AFZZ	AM IF,551G/553G/Saudi Arabia	A G
CF101	RFiLA0117AFZZ	AM IF,552E/554E	A G
CF102	RFiLA0118AFZZ	AM IF,552E/554E	A E
CF102	RFiLA0119AFZZ	AM IF,551G/551G/Saudi Arabia	A E
EMF551,552	RFiLL0063AFZZ	Noise Filter	A D
THYRISTOR			
TH151	VHH41D26///1F	10 kohm,Temperatures Detection	A B
TRANSFORMERS			
T1	RCiLi0336AFZZ	FM IF	A E
T101	RCiLi0391AFZZ	AM IF,551G/553G/Saudi Arabia	A C
T101	RCiLi0393AFZZ	AM IF.,552E/554E	A C
T102	RCiLi0392AFZZ	AF IF,551G/553G/Saudi Arabia	A C
T102	RCiLi0394AFZZ	AM IF.,552E/554E	A C
COILS			
L1	VP-DH470K0000	47 μH	A B
L51	RCiLZ0085AFZZ	19 kHz,Trap	A E
L101	RCiLA1015AFZZ	MW Antenna,551G/553G/Saudi Arabia	A C
L101	RCiLA1018AFZZ	MW Antenna,552E/554E	A C
L102	RCiLA1016AFZZ	LW Antenna,551G/553G/Saudi Arabia	A D
L102	RCiLA1019AFZZ	LW Antenna,552E/554E	A D

REF.NO.	PART NO.	DESCRIPTION	CODE
L103	RCiLR0471AFZZ	MW RF,551G/553G/Saudi Arabia	A D
L103	RCiLR0473AFZZ	MW RF,552E/554E	A D
L104	RCiLR0472AFZZ	LW RF,551G/553G/Saudi Arabia	A C
L104	RCiLR0474AFZZ	LW RF,552E/554E	A C
L105	RCiLB1023AFZZ	MW OSC.,551G/553G/Saudi Arabia	A C
L105	RCiLB1025AFZZ	MW OSC.,552E/554E	A C
L106	RCiLB1024AFZZ	LW OSC.,551G/553G/Saudi Arabia	A C
L106	RCiLB1026AFZZ	LW OSC.,552E/554E	A C
L107	VP-CV2R2M0000	2.2 μH	A B
L108	VP-CV680K0000	68 μH	A B
L109	VP-CV181K0000	180 μH	A B
L551	RCiLZ0166AFZZ	Choke	A E
L552	VP-CV331K0000	330 μH	A B

CONTROLS

TC801	RTō-H1072AFZZ	Trimmer,20 pF	A C
VR1	RVR-M0586AFZZ	10 kohm (B)	A B
VR151	RVR-M0563AFZZ	47 kohms (B)	A B
VR201	RVR-M0562AFZZ	33 kohms (B)	A B
VR202	RVR-M0448AFZZ	10 kohm (B)	A B
VR701	RVR-Z0256AFZZ	50 kohms (B)×2,50 kohms (W) with Switch,551G/553G/Saudi Arabia	A M
VR701	RVR-Z0257AFZZ	50 kohms (B)×2,50 kohms (W),80 ohms with Switch,552E/554E	A T
VR702	RVR-A0221AFZZ	50 kohms (A)×2	A E

CRYSTAL

X801	RCRSB0123AFZZ	4.5 MHz,PLL	A G

ELECTROLYTIC CAPACITORS

(All electrolytic capacitors are ±20% type.)

C5	RC-GZA105AF1H	1 μF,50V	A B
C7	RC-GZA474AF1H	0.47 μF,50V	A A
C10	RC-GZA105AF1H	1 μF,50V	A B
C101	RC-EZD105AF1H	1 μF,50V	A B
C103	RC-EZY107AF1A	100 μF,10V	A B
C130	RC-GZA105AF1H	1 μF,50V	A B
C131	RC-GZA106AF1C	10 μF,16V	A B
C133	RC-EZ1316AFZZ	10 μF,16V	A B
C152	RC-EZ1316AFZZ	10 μF,16V	A B
C202,203	RC-EZD105AF1H	1 μF,50V	A B
C206	RC-EZD104AF1H	0.1 μF,50V	A B
C207	RC-EZD105AF1H	1 μF,50V	A B
C405,406	RC-GZA476AF1C	47 μF,16V	A B
C409	RC-GZA106AF1C	10 μF,16V	A B
C551	RC-GZA476AF1C	47 μF,16V	A B
C553	RC-GZA227AF1C	220 μF,16V	A B
C554	RC-GZV108AF1C	1000 μF,16V	A D
C557	RC-EZD475AF1E	4.7 μF,25V	A B
C558	RC-EZY476AF0J	47 μF,6.3V	A B
C701,702	RC-GZA105AF1H	1 μF,50V	A B
C709,710	RC-EZY476AF0J	47 μF,6.3V	A B
C711,712	RC-EZY107AF1A	100 μF,10V	A B
C715,716	RC-GZA477AF1A	470 μF,10V	A C
C717	RC-GZA227AF1C	220 μF,16V	A B
C718	RC-EZY476AF0J	47 μF,6.3V	A B
C901	RC-GZV477AF1C	470 μF,16V,552E/554E/Saudi Arabia	A C

REF.NO.	PART NO.	DESCRIPTION	CODE

CAPACITORS

There are two types of capacitors available and they can be identified from each other by reading their Part Numbers.

- Ceramic type capacitor;
  A symbol "C" or "K" is given at the 3rd digit of its Part Number like "VCC (or K)·····J."
- Semiconductor type capacitor;
  A symbol "T" is given at the 3rd digit of its Part Number like "VCT·····J."

The capacitance error of each capacitor is indicated by the symbol given at the 13th digit of the Part Number as follows:"J" (±5%), "K" (±10%), "M" (±20%), "N" (±30%), "C" (±0.25 pF), "D" (±0.5 pF), "Z" (+80−20%).
(Tubular type ceramic capacitor is identified by the symbol MF of the part NO. VC00MF0000000; this MF does not mean the lead wire.)

C1	VCTYMF1CY223N	0.022 μF,16V	A A
C2	VCTYMF1NY333N	0.033 μF,12V	A A
C3,4	VCTYMF1CY223N	0.022 μF,16V	A A
C6	VCTYPA1CX473M	0.047 μF,16V	A A
C8	VCCCMF1HH100J	10 pF (CH),50V	A A
C9	VCTYMF1NY333N	0.033 μF,12V	A A
C11,12	VCTYMF1CY223N	0.022 μF,16V	A A
C13	VCKYMF1HB331K	330 pF,50V	A A
C14	VCTYMF1CY223N	0.022 μF,16V	A A
C51	VCKYMF1HB331K	330 pF,50V	A A
C52	VCCSMF1HL4R7C	4.7 pF,50V	A A
C53～55	VCKYMF1HB331K	330 pF,50V	A A
C56	VCTYMF1EX103N	0.01 μF,25V	A A
C57,58	VCKYMF1HB681K	680 pF,50V	A A
C59	VCKYMF1HD122M	0.0012 μF,50V	A A
C60	VCCSMF1HL680J	68 pF,50V	A A
C62	VCTYMF1CY223N	0.022 μF,16V	A A
C63	VCTYMF1EX103N	0.01 μF,25V	A A
C64,65	VCTYMF1HV332K	0.0033 μF,50V	A A
C66	VCKYMF1HB561K	560 pF,50V	A A
C102	VCKYMF1HB471K	470 pF,50V	A A
C104	VCTYMF1EX103N	0.01 μF,25V	A A
C106	VCTYMF1EX153M	0.015 μF,50V	A A
C107	VCTYPA1CX473M	0.047 μF,16V	A A
C108	VCTYMF1NY333N	0.033 μF,12V	A A
C109	VCTYMF1CY223N	0.022 μF,16V	A A
C110	VCTYPA1CX473M	0.047 μF,16V	A A
C111	VCCSMF1HL4R7C	4.7 pF,50V	A A
C112	VCCSMF1HL150J	15 pF,50V	A A
C113	VCTYMF1NY333N	0.033 μF,12V	A A
C114	VCTYMF1HV222K	0.0022 μF,50V	A A
C115	VCCSMF1HL470J	47 pF,50V	A A
C116	VCCSMF1HL100J	10 pF,50V,551G/553G/Saudi Arabia	A A
C116	VCCSMF1HL4R7C	4.7 pF,50V,552E/554E	A A
C117	VCTYMF1EX103N	0.01 μF,25V	A A
C118	VCTYMF1CY223N	0.022 μF,16V	A A
C119	VCKYMF1HB102K	0.001 μF,50V	A A
C120	VCTYPA1CX473M	0.047 μF,16V	A A
C121	VCTYMF1HV472K	0.0047 μF,50V	A A
C122	VCTYPA1CX473M	0.047 μF,16V	A A
C123	VCCCPA1HH820J	82 pF (CH),50V	A A
C124	VCCCMF1HH180J	18 pF (CH),50V	A A
C125	VCCUPU1HJ511J	510 pF(UJ),50V	A A
C126	VCCTPU1HH331J	330 pF (TH),50V	A A
C127	VCTYMF1NY333N	0.033 μF,12V	A A
C128,129	VCTYMF1CY223N	0.022 μF,16V	A A
C132	VCTYMF1CY223N	0.022 μF,16V	A A
C134	VCKYMF1HB222K	0.0022 μF,50V	A A
C136	VCCSMF1HL120J	12 pF,50V	A A
C137	VCCCMF1HH8R2D	8.2 pF (CH),50V	A A
C138	VCTYPU1EX333K	0.033 μF,25V	A A
C151	VCTYMF1EX103N	0.01 μF,25V	A A
C153～156	VCTYMF1EX103N	0.01 μF,25V	A A

REF.NO.	PART NO.	DESCRIPTION	CODE
C201	VCKYMF1HB181K	180 pF,50V	A A
C204	VCTYMF1NY333N	0.033 μF,12V	A A
C205	VCTYMF1HV182K	0.0018 μF,50V	A A
C208	VCQPKA2AA471J	470 pF,100V,Polyepropylene	A B
C209,210	VCTYMF1NY333N	0.033 μF,12V	A A
C401,402	VCTYPU1EX102J	0.001 μF,25V	A A
C403,404	VCKYMF1HB221K	220 pF,50V	A A
C407,408	VCTYMF1EX103N	0.01 μF,25V	A A
C552	VCTYMF1CY223N	0.022 μF,16V	A A
C555,556	VCTYPA1EF104Z	0.1 μF,25V	A A
C703,704	VCTYMF1CY223N	0.022 μF,16V	A A
C705,706	VCTYMF1HV152K	0.0015 μF,50V	A A
C707,708	VCTYPA1EF104Z	0.1 μF,25V	A A
C713,714	VCFYHA1HA104J	0.1 μF,50V,Polyethylene Film	A B
C719,720	VCKYMF1HB102K	0.001 μF,50V	A A
C801	VCTYMF1EX103N	0.01 μF,25V	A A
C803	VCCSMF1HL680J	68 pF,50V	A A

RESISTORS

(Unless otherwise specified, resistors are ±5%,carbon type.) (Tubular type carbon film resistor ±5% is identified the symbol MF of the part NO. VRD—MF0000000; this MF does not mean lead wire.)

R1	VRD-MF2EE391J	390 ohms,1/4W	A A
R2	VRD-MF2EE152J	1.5 kohms,1/4W	A A
R4	VRD-MF2EE391J	390 ohms,1/4W	A A
R5	VRD-MF2EE221J	220 ohms,1/4W	A A
R6	VRD-MF2EE331J	330 ohms,1/4W	A A
R7,8	VRD-MF2EE562J	5.6 kohms,1/4W	A A
R9	VRD-MF2EE390J	39 ohms,1/4W	A A
R10	VRD-MF2EE123J	12 kohms,1/4W	A A
R11	VRD-MF2EE103J	10 kohm,1/4W	A A
R13	VRD-MF2EE104J	100 kohm,1/4W	A A
R14	VRD-MF2EE102J	1 kohm,1/4W	A A
R15	VRD-MF2EE473J	47 kohms,1/4W	A A
R16,17	VRD-MF2EE104J	100 kohm,1/4W	A A
R18	VRD-MF2EE224J	220 kohms,1/4W	A A
R19	VRD-MF2EE473J	47 kohms,1/4W	A A
R20	VRD-ST2CD471J	470 ohms,1/6W	A A
R51	VRD-MF2EE122J	1.2 kohms,1/4W	A A
R52	VRD-MF2EE474J	470 kohms,1/4W	A A
R53,54	VRD-MF2EE222J	2.2 kohms,1/4W	A A
R55	VRD-MF2EE272J	2.7 kohms,1/4W	A A
R56	VRD-MF2EE223J	22 kohms,1/4W	A A
R57	VRD-MF2EE913J	91 kohms,1/4W	A A
R58~61	VRD-MF2EE472J	4.7 kohms,1/4W	A A
R63	VRD-MF2EE102J	1 kohm,1/4W	A A
R64	VRD-MF2EE100J	10 ohm,1/4W	A A
R65,66	VRD-MF2EE682J	6.8 kohms,1/4W	A A
R67	VRD-MF2EE680J	68 ohms,1/4W	A A
R68	VRD-MF2EE562J	5.6 kohms,1/4W	A A
R69	VRD-MF2EE154J	150 kohms,1/4W	A A
R101	VRD-RU2EE470J	47 ohms,1/4W	A A
R102	VRD-MF2EE474J	470 kohms,1/4W	A A
R103	VRD-MF2EE392J	3.9 kohms,1/4W	A A
R104	VRD-MF2EE153J	15 kohms,1/4W	A A
R105	VRD-MF2EE330J	33 ohms,1/4W	A A
R106	VRD-ST2CD563J	56 kohms,1/6W	A A
R107	VRD-MF2EE224J	220 kohms,1/4W	A A
R108	VRD-MF2EE332J	3.3 kohms,1/4W	A A
R109	VRD-MF2EE224J	220 kohms,1/4W	A A
R110	VRD-MF2EE332J	3.3 kohms,1/4W	A A
R111	VRD-SA2CD332J	3.3 kohms,1/6W	A A
R112	VRD-MF2EE474J	470 kohms,1/4W	A A
R113	VRD-SA2CD332J	3.3 kohms,1/6W	A A
R114	VRD-MF2EE332J	3.3 kohms,1/4W	A A
R115,116	VRD-MF2EE104J	100 kohm,1/4W	A A
R117	VRD-SA2CD332J	3.3 kohms,1/6W	A A
R118	VRD-MF2EE474J	470 kohms,1/4W	A A
R119	VRD-MF2EE680J	68 ohms,1/4W	A A
R120	VRD-MF2EE121J	120 ohms,1/4W	A A
R121	VRD-MF2EE100J	10 ohm,1/4W	A A
R122	VRD-MF2EE223J	22 kohms,1/4W	A A
R123	VRD-MF2EE123J	12 kohms,1/4W	A A
R124	VRD-MF2EE820J	82 ohms,1/4W	A A
R151	VRD-MF2EE471J	470 ohms,1/4W	A A
R152	VRD-MF2EE391J	390 ohms,1/4W	A A
R153	VRD-MF2EE182J	1.8 kohms,1/4W	A A
R154	VRD-MF2EE103J	10 kohm,1/4W	A A
R155	VRD-MF2EE332J	3.3 kohms,1/4W	A A
R156	VRD-MF2EE683J	68 kohms,1/4W	A A
R157	VRD-MF2EE473J	47 kohms,1/4W	A A
R158	VRD-MF2EE393J	39 kohms,1/4W	A A
R159	VRD-MF2EE474J	470 kohms,1/4W	A A
R160	VRD-MF2EE124J	120 kohms,1/4W	A A
R161	VRD-MF2EE474J	470 kohms,1/4W	A A
R162	VRD-MF2EE683J	68 kohms,1/4W	A A
R163	VRD-MF2EE184J	180 kohms,1/4W	A A
R201	VRD-MF2EE473J	47 kohms,1/4W	A A
R202	VRD-MF2EE273J	27 kohms,1/4W	A A
R203	VRD-MF2EE563J	56 kohms,1/4W	A A
R204	VRD-MF2EE274J	270 kohms,1/4W	A A
R205	VRD-MF2EE222J	2.2 kohms,1/4W	A A
R206	VRD-MF2EE124J	120 kohms,1/4W	A A
R207	VRD-MF2EE184J	180 kohms,1/4W	A A
R208	VRD-MF2EE104J	100 kohm,1/4W	A A
R209	VRD-MF2EE223J	22 kohms,1/4W	A A
R210	VRD-MF2EE822J	8.2 kohms,1/4W	A A
R211	VRD-MF2EE472J	4.7 kohms,1/4W	A A
R213,214	VRD-MF2EE472J	4.7 kohms,1/4W	A A
R401,402	VRD-MF2EE181J	180 ohms,1/4W	A A
R403,404	VRD-MF2EE334J	330 kohms,1/4W	A A
R405,406	VRD-MF2EE123J	12 kohms,1/4W	A A
R407,408	VRD-MF2EE152J	1.5 kohms,1/4W	A A
R501,502	VRD-MF2EE333J	33 kohms,1/4W	A A
R503	VRD-MF2EE103J	10 kohm,1/4W	A A
R504	VRD-MF2EE681J	680 ohms,1/4W	A A
R505	VRD-MF2EE562J	5.6 kohms,1/4W	A A
R506	VRD-MF2EE182J	1.8 kohms,1/4W	A A
R551	VRD-MF2EE821J	820 ohms,1/4W	A A
R553	VRD-MF2EE472J	4.7 kohms,1/4W	A A
R554	VRD-MF2EE271J	270 ohms,1/4W,551G/552E/551G for Saudi Arabia	A A
R554	VRD-MF2EE331J	330 ohms,1/4W,553G/554E/553G for Saudi Arabia	A A
R555	VRD-MF2EE181J	180 ohms,1/4W,551G/552E/551G for Saudi Arabia	A A
R555	VRD-MF2EE331J	330 ohms,1/4W,553G/554E/553G for Saudi Arabia	A A
R556	VRD-MF2EE331J	330 ohms,1/4W	A A
R557	VRD-MF2EE271J	270 ohms,1/4W	A A
R701,702	VRD-MF2EE332J	3.3 kohms,1/4W	A A
R703,704	VRD-MF2EE682J	6.8 kohms,1/4W	A A
R705,706	VRD-ST2CD272J	2.7 kohms,1/6W	A A
R707,708	VRD-MF2EE4R7J	4.7 ohms,1/4W	A A
R709	VRD-MF2EE562J	5.6 kohms,1/4W	A A
R801	VRD-MF2EE105J	1 Mohm,1/4W	A A
R802	VRD-MF2EE272J	2.7 kohms,1/4W	A A
R803~808	VRD-MF2EE273J	27 kohms,1/4W	A A
R811~814	VRD-MF2EE103J	10 kohm,1/4W	A A
R815,816	VRD-MF2EE103J	10 kohm,1/4W,552E/554	A A
R817~820	VRD-MF2EE103J	10 kohm,1/4W	A A
R901	VRS-PU3DE820J	82 ohms,2W,552E/554E/Saudi Arabia	A A

OTHER CIRCUITRY PARTS

CNP1	QTANZ0602AFZZ	Plug,6Pin	A C

REF.NO.	PART NO.	DESCRIPTION	CODE
CNP2	QTANZ0811AFZZ	Plug,8Pin	A C
CNP401	QCNCM584CAFZZ	Plug,3Pin	A A
CNP551	QCNCM584CAFZZ	Plug,3Pin	A A
CNP701	QCNWG0115AFZZ	Socket,9Pin Input,551G/553G	A N
M1	98RX7F-711-02	Motor Ass'y	AW
PL551	RLMPM0204AFZZ	Pilot Lamp,551G/552E/551G for Saudi Arabia	A D
PL551	RLMPM0205AFZZ	Pilot Lamp,553G/554E/553G for Saudi Arabia	A D
SO1	QSōCZ9067AFZZ	Socket,Antenna,552E/554E/Saudi Arabia	A D
SO701	QSōCD4411AFZZ	Socket,Speaker,552E/554E/Saudi Arabia	A F
SO702	QSōCD4411AFZZ	Socket,Speaker,552E/554E	A F
SOL551	RPLU-0226AFZZ	Burglar Solenoid,552E/554E	A K
SW701	98RX0F-003-01	Switch,Leaf Type	A K
SW801~803	QSW-K0079AFZZ	Switch,Push Type	A B
SW804~807	QSW-K0064AFZZ	Switch,Key Type	A C
TU101	RTUNV0103AFZZ	Tuner Unit	A W

MECHANICAL PARTS

1	98RX1F-101-01A	Main Chassis Ass'y	—
2	98RX1F-102-01	Cassette Case	A D
3	98RX1F-103-04	Head Chassis	A C
4	98RX1F-104-00	Spring,Head Chassis	A A
5	98RX1F-107-01	Eject Lever	A B
6	98RX1F-108-00	Auto Stop Sensor Lever	A B
7	98RX1F-109-00	Cassette Holder	A C
8	98RX1F-110-00	Spring,Cassette Holder	A A
9	98RX1F-111-00	Reset Plate	A A
10	98RX1F-112-00	Stop Lever	A A
12	98RX1F-113-00	Lock Plate	A B
13	98RX1F-114-01	Ratchet	A B
15	98RX3F-306-00	Chassis Holder	A B
17	98RX3F-310-00	Roller	A A
18	98RX4F-408-00	Screw,ϕ2×4mm	A A
20	98RX3F-311-00	Pinch Roller Pin	A A
21	98RX7F-701-01	Flywheel Ass'y	A K
22	98RX5F-501-02	Spring,Lock Plate	A A
23	98RX5F-502-00	Spring,Stop Lever	A A
24	98RX5F-503-00	Spring,Head Chassis	A B
25	98RX5F-504-01	Spring,Cassette Holder	A A
26	98RX5F-505-01	Spring,Ratchet	A A
27	98RX5F-506-01	Spring,Azimuth	A A
28	98RX5F-507-01	Spring,Eject Lever	A A
29	98RX5F-508-00	Spring,Pinch Roller	A A
31	98RX2F-202-00	Sensing Cap	A A
32	98RX7F-703-00	Reel Ass'y	A E
33	98RX2F-204-00	Pinch Roller	A C
34	98RX8F-801-00	Drive Belt	A C
35	98RX8F-802-00	Take Up Belt	A C
36	98RX4F-402-00	Screw,ϕ2.3×9mm	A A
37	98RX4F-407-01	Screw,ϕ2×9mm	A A
38	98RX4F-406-00	Screw,ϕ2.6×3mm	A A
39	98RX8F-803-00	Washer,ϕ2.1×ϕ5×0.3mm	A A
40	98RX8F-807-01	E-Ring,ϕ1.5×ϕ3.5×0.3mm	A A
41	98RX8F-807-00	E-Ring,ϕ1.2mm	A A
42	98RX8F-805-00	E-Ring,ϕ2.0mm	A A
43	98RX8F-806-00	Washer,ϕ2.1×ϕ4×0.5mm	A A
44	98RX8F-806-02	Washer,ϕ2.1×ϕ4×0.5T	A A
45	98RX8F-806-03	Washer,ϕ1.7×ϕ3.2×0.25mm	A A
49	98RX0F-002-01	Playback Head	A Q
50	98RX1F-106-00	Pinch Roller Holder	A B

CABINET PARTS

301	GFTACV003AFSA	Lid,Cassette Compartment,551G/552E/551G for Saudi Arabia	A D
301	GFTACV003AFSB	Lid,Cassette Compartment,553G/554E/553G for Saudi Arabia	A D
302	GWAKPV005AF01	Nose Piece Ass'y,551G/551G for Saudi Arabia	A M
302	GWAKPV005AF02	Nose Piece Ass'y,553G/553G for Saudi Arabia	A M
302	GWAKPV006AF01	Nose Piece Ass'y,552E	A M
302	GWAKPV006AF02	Nose Piece Ass'y,554E	A M
302-1	————	Nose Piece,551G/551G for Saudi Arabia	—
302-1	————	Nose Piece,553G/553G for Saudi Arabia	—
302-1	————	Nose Piece,552E	—
302-1	————	Nose Piece,554E	—
302-2	PREFLV003AFSA	Illumination Plate,Button	A D
302-3	JBTN-V007AFSA	Button,Push	A B
302-4	JBTN-V008AFSA	Button,Push	A B
303	MSPRD0802AFFJ	Spring,Cassette Up	A A
304	PCōVUV002AFZZ	Cover,Interruption Light	A A
305	LHLDZV002AFFW	Holder,LCD	A D
306	PCASDV001AFZZ	Case,LCD	A D
307	PFiLW0048AFSA	Filter,LCD,551G/552E/551G for Saudi Arabia	A C
307	PFiLW0048AFSB	Filter,LCD,553G/554E/553G for Saudi Arabia	A C
308	QCNTF0101AFZZ	Contact,LCD	A B
309	LANGKV003AFFW	Bracket,Front	A E
310	GCABAV007AFFW	Main Cabinet,Saudi Arabia	A M
310	GCABAV009AFFW	Main Cabinet,552E/554E	A M
310	GCABAV013AFFW	Main Cabinet,551G/553G	A M
311	LANGQV004AFFW	Bracket,IC Fixing	A B
312	JBTN-V009AFSA	Button,Eject	A B
313	LHLDW3081AFFW	Bracket,Cord,551G/553G	A B
314	MSPRP0437AFFW	Plate Spring,Unit Lock	A D
315	PCōVUV001AFZZ	Cover,Switch	A A
316	PRDARV002AFFW	Heat Sink	A C
317	GCABBV007AFFW	Top,Cabinet	A E
318	JKNBKV001AFSA	Knob,Tone	A B
319	JKNBKV002AFSA	Knob,Volume/Balance,551G/553G/Saudi Arabia	A B
319	JKNBKV004AFSA	Knob,Volume/Balance,552E/554E	A B
320	JKNBKV003AFSA	Knob,Fader,552E/554E	A B
321	PZETFV003AFZZ	Insulator	A C
322	TSPC-V026AFZZ	Label,Specifications,551G	A C
322	TSPC-V029AFZZ	Label,Specifications,552E	A C
322	TSPC-V030AFZZ	Label,Specifications,554E	A C
322	TSPC-V031AFZZ	Label,Specifications,553G	A C
322	TSPC-V032AFZZ	Label,Specifications,551G for Saudi Arabia	A C
322	TSPC-V033AFZZ	Label,Specifications,553G for Saudi Arabia	A C
323	MLEVFV002AFFW	Bracket,Release,552E/554E	A D
324	MSPRCV002AFFJ	Spring,Solenoid,552E/554E	A A
325	RV-LX0042AFZZ	LCD	A P
326	QKiTZ0101AFZZ	Cord Ass'y,Saudi Arabia	A L
327	QKiTZ0102AFZZ	Cord Ass'y,552E/554E	A U
328	QKiTZ0107AFZZ	Pin Ass'y,552E/554E/Saudi Arabia	A E
329	QKiTZ0108AFZZ	9Pin Cord Ass'y,551G/553G	A F
330	PSPAZ0163AFZZ	Bolt/Nut/Release Pin, Ass'y,551G/553G	A F

REF.NO.	PART NO.	DESCRIPTION	CODE
331	PSPAZ0164AFZZ	Bolt/Nut/Release Pin/Side Bracket Ass'y	A K
601A	XHBSD30P06000	Screw, ϕ3×6mm,551G/553G/ Saudi Arabia	A A
601A	XHBSD30P08000	Screw, ϕ3×8mm,552E/554E	A A
601B	XHBSD30P06000	Screw, ϕ3×6mm,551G/553G	A A
602	XBBSD30P05000	Screw, ϕ3×5mm	A A
603	XBPSD20P03J00	Screw, ϕ2×3mm,552E/554E	A A
604	XHSSD26P06000	Screw, ϕ2.6×6mm	A A
	ACCESSORIES/PACKING PARTS		
	LANGT1348AFFW	Bracket,Unit	A D
	PCASZ0052AFFW	Case,Unit	A G
	PGUMM0180AFZZ	Cushion,Rubber	A B
	SPAKAV006AFZZ	Packing Add.,Front	A C
	SPAKAV007AFZZ	Packing Add.,Rear	A C
	SPAKCV024AFZZ	Packing Case,551G	A G
	SPAKCV025AFZZ	Packing Case,553G	A G
	SPAKCV026AFZZ	Packing Case,552E	A G
	SPAKCV027AFZZ	Packing Case,554E	A G
	SPAKCV028AFZZ	Packing Case,551G for Saudi Arabia	A G
	SPAKCV029AFZZ	Packing Case,553G for Saudi Arabia	A G
	SSAKH0024AGZZ	Polyethylene Bag,Unit	A A
	TCAUHV003AFZZ	Label,Burglar,552E/554E	A A
	TGANE1117AFZZ	Warranty Card,552E/554E	A B
	TGANE1135AFZZ	Warranty Card,551G/553G	A C
	TiNSEV004AFZZ	Operation Manual,552E/554E	A D
	TiNSZV002AFZZ	Operation Manual,551G/553G	A H
	TiNSZV005AFZZ	Operation Manual,Saudi Arabia	A F
	TLABZV014AFZZ	Sticker,Burglar,551G/553G/ Saudi Arabia	A C
	TLABZV016AFZZ	Sticker,Burglar,552E/554E	A C
	P.W.B. ASSEMBLY (Not Replacement Item)		
PWB-A	DUNTLV013AF03	Main PWB,551G	—
PWB-A	DUNTLV013AF06	Main PWB,551G for Saudi Arabia	—
PWB-A	DUNTLV013AF09	Main PWB,552E	—
PWB-A	DUNTLV013AF12	Main PWB,553G	—
PWB-A	DUNTLV013AF15	Main PWB,553G for Saudi Arabia	—
PWB-A	DUNTLV013AF18	Main PWB,554E	—
PWB-B,C	DUNTZV022AF03	LCD/Junction PWB,551G/552E/551G for Saudi Arabia	—
PWB-B,C	DUNTZV022AF06	LCD/Junction PWB,553G/554E/553G for Saudi Arabia	—

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